

Translated English of Chinese CNCA (CCC) Regulations: CNCA C11-07:2014

Translated by: www.ChineseStandard.net

Sales@ChineseStandard.net

Wayne Zheng et al.

CNCA / CCC

Serial No.: CNCA-C11-07:2014

CNCA-C11-07-2014

Compulsory Product Certification Implementation Rules - Motor Vehicle Exterior Lighting and Light Signal Devices

强制性产品认证实施规则

机动车外部照明及光信号装置

CNCA-C11-07-2014 How to BUY & immediately GET a full-copy of this standard?

1. www.ChineseStandard.net;
2. Search --> Add to Cart --> Checkout (3-steps);
3. No action is required - Full-copy of this standard will be automatically & immediately delivered to your EMAIL address in 0~25 minutes.
4. Support: Sales@ChineseStandard.net. Wayne, Sales manager

Issued on: 21 August 2014

Effective on: 1 January 2015

Issued by: Certification and Accreditation Administration of the People's
Republic of China (CNCA)

About the translator Wayne Zheng

Wayne Zheng was borne in China in 1962 and migrated to Singapore in 1992. He is now the Sales Manager (Founder and Managing Director) at www.ChineseStandard.net. Wayne Zheng had more than 10 years extensive expertise and hands-on working experiences, through his then-employment as “China Certification Program Manager” at BlackBerry Beijing, and “Product Safety & Compliance (PS&C) Manager” at Motorola Singapore:

- CNCA / China Compulsory Certification (CCC) regulations.
- Hands-on program experience with regulator CNCA for CCC mark’s compliance, approval and management.
- Was an authorized representative by then-employer BlackBerry (RIM) to liaise with Chinese regulators, authorities, certification bodies and delegated laboratories – including CNCA, CQC, Beijing Communication Authority, Beijing Administration of Quality Supervision Inspection and Quarantine.
- Hands-on program experience with certification body CQC for “certification entrusting”, type test, initial factory audit, regular / annual factory audit (i.e. the “supervision after certification” in this Rules).
- Manage, plan, guide and site-visit the global factories / suppliers’ global factories (i.e. the “manufacturing enterprises” in this Rules) in North America, Europe and China for CQC initial factory audit and regular annual factory audit (supervision after certification).
- ISO Process Auditor, certified by Motorola USA & Motorola Singapore
- PMP, certified by Project Management Institute USA.

Wayne Zheng’s Linked-in profile:

<https://www.linkedin.com/in/waynezhengwenrui>



A full copy of this document (Translated English, true-PDF and/or MS-Word) can also be purchased from www.ChineseStandard.net (Search “CNCA”). Lead time to deliver: <2 hours in office time; <10 hours in off-office time.

Contact: Sales@ChineseStandard.net; wr.zheng@gmail.com

Table of Contents

0 Introduction	4
1 Application scope	4
2 Terms and definitions	4
3 Standards for certification.....	4
4 Certification modes	5
5 Classification of certification units	5
6 Certification entrusting	6
7 Certification implementation.....	7
8 Supervision after certification	10
9 Certificate.....	12
10 Certification marks	13
11 Charges.....	14
12 Certification responsibility	14
13 Certification implementation details.....	14
Attachment 1: Product description of motor vehicle exterior lighting and light signal devices	16
Attachment 2: Production consistency requirements	18
Appendix 1: Factory quality assurance capability requirements.....	20
Attachment 3: Certification implementation of service parts for the after-sales maintenance for vehicles out of production.....	26
Attachment 4: Standards for certification.....	28

0 Introduction

This Rules is established based on the security risk and certification risk of motor vehicle exterior lighting and light signal devices. It stipulates the basic principles and requirements for the implementation of compulsory product certification for motor vehicles' exterior lighting and light signal devices.

This Rules can be used with other general rules issued by Certification and Accreditation Administration (CNCA), such as "Compulsory Product Certification Implementation Rules - Manufacturing Enterprise Classification Management, Certification Mode Selection and Determination", "Compulsory Product Certification Implementation Rules – Manufacturing Enterprise Testing Resource and Utilization of Other Certification Results", "Compulsory Product 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 compliance with the certification, and are compatible with the requirements of the standards.

1 Application scope

This Rules applies to the exterior lighting and light signal devices of: M-type, N-type, O-type and L-type motor vehicles.

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 Terms and definitions

Exterior lighting and light signal devices: the devices designed for road lighting or for sending light signals to other road users (hereinafter referred to as "lights").

See GB4785 and GB18100 for the definition of various types of lights.

3 Standards for certification

See Attachment 4.

The above standards shall generally follow the latest version issued by the National Standardization Administrative Departments. When other versions of the standards need to be used, they shall follow the relevant statements issued by CNCA.

4 Certification modes

The basic certification mode of implementing the compulsory product certification for motor vehicle exterior lighting and light signal devices is:

Type test + initial factory inspection + supervision after certification;

“Supervision after certification” in above basic certification mode refers to 1 of the 3 modes – after certification, follow-up inspection and factory on-site sampling testing OR inspection and sampling testing in the market OR inspection.

The certification body shall follow the requirements of “Compulsory Product Certification Implementation Rules - Manufacturing Enterprise Classification Management, Certification Mode Selection and Determination” to carry out the classification management to manufacturing enterprise; consider the results of classification management; on the basis of basic certification mode, appropriately increase the combination of supervision mode after certification, so as to determine the certification mode that is applicable to certification client [TRNASLATOR NOTE is not part of this Rules. Translator note: “certification client”, the counterpart of certification body, refers to the Applicant / Manufacturer or its proxy (Power of Attorney). For ease of reading, hereinafter abbreviated as “CLIENT”].

5 Classification of certification units

In principle, “the motor vehicle exterior lighting and light signal devices” products of the same function, produced by the same manufacturer and same manufacturing enterprise, and having no significant difference in the following aspects could be classified as one certification unit:

- (1) Applicable standards and functions;
- (2) The type of the light source (filament bulbs, light source module, etc.)
- (3) Characteristic of the optical system;
- (4) Parts which change the optical effect by reflection, refraction, absorption and/or deformation; luminosity intensity levels; and light distribution angle, etc.;
- (5) For unchangeable light sources, the photoelectric characteristics of the light source (rated voltage, rated power and filament shape, etc.);
- (6) Lamps' categories, levels and modes (such as headlamp, front fog lamp, turn light, brake lamp, side marker lamp, lighting device for rear license plate, retro-reflector, and mark plate etc.);
- (7) Retro-reflector's optical unit;
- (8) Tail signboard: the characteristic of retro reflective materials and fluorescent material; as well as the parts that affect retro reflective

needs 1-2 man-days for each manufacturing enterprise.

7.2.3 Production consistency factory on-site inspection

In general, after the type test and the production consistency control plan auditing are qualified, it shall conduct factory on-site inspection.

Certification body shall entrust the inspectors, who are registered and qualified inspectors for compulsory product certification, to form the inspection team to conduct the factory on-site inspection. When inspecting, manufacturing enterprise shall have the products running in production. If necessary, certification body may conduct extended inspection to the field and site other than the manufacturing enterprise [Translator note: This means that Certification Body may inspect/audit the part/component/material suppliers of the manufacturing enterprise. For example, if the manufacturing enterprise only carry out the “final assembly”, Certification Body may likely need to inspect/audit the critical components / sub-assembly supplier].

The factory on-site inspection time shall be made according to the unit quantity of the products, and appropriately consider the production scale of the factory. Normally it needs 2-4 man-days for each factory.

When conducting factory on-site inspection, inspection teams shall choose samples randomly from the end of the production line or qualified product in the warehouse. Randomly sampled products are inspected, but not limited to, for the following contents:

- a. The structure and parameters of the products to be certified;
- b. Designated test in factory on-site (selected from production consistency control plan).

If no un-conformance product is found, the inspection result is qualified;

If un-conformance products are found, factory is allowed to make rectifications. Certification body adopts appropriate way to confirm the rectification results. The rectification time must not be more than 3 months. If the rectification cannot be finished on time, or the rectification results are not conformant, the inspection result is unqualified.

If there is significant deviation between production consistency control plan and its implementation situation, or the structure and parameters of the actual products are significantly different from the type test samples, the inspection result is disqualified, and this certification is terminated.

7.3 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 is terminated.

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 details, DETERMINE the specific programme of certification implementation and INFORM CLIENT.

7 Certification implementation

7.1 Type test

7.1.1 Type test plan

Certification body shall formulate the type test plan, after auditing the materials. And INFORM the CLIENT. CLIENT may voluntarily select the designated laboratory.

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

7.1.2 Sample requirements of type test

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 method to obtain the samples.

CLIENT shall guarantee that all the samples provided are consistent with actual products. Certification body and 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, in the certification implementation details, define the "product critical components and raw materials checklist" AND acceptable compulsory & voluntary product certificate OR type test report's conditions and specific requirements.

7.1.3 Test items of type test

Items of type test are those compulsory clauses that are applicable to the corresponding standards in Attachment 4 of this Rules.

7.1.4 Implementation of type test

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.

If there is test item that is non-conformant, rectification is allowed after the analysis of reasons causing the non-conformance. After the rectification, it can

approved. If sample testing or factory inspection is required, the approval shall be granted after the testing and/or inspection are PASS. Sample testing may utilize the testing resources of the manufacturing enterprise. The conditions and requirements are the same as Clause 7.2.2 of this Rules [Translator note: It should be “same as Clause 8.2.2 of this Rules”, by cross-comparing with CNCA-C11-04-2014].

If it meets the requirements, the change is approved. If renewal certificate is required, the new certificate's serial number and approval validity date shall be, in principle, maintained unchanged; and indicate the approval date for change. If renewal certificate is not required, the change confirmation shall be issued; and indicate the change content and approval date for change.

9.4 Certificate's cancellation, suspension and withdrawal

Certificate's cancellation, suspension and withdrawal shall be implemented in accordance with the “Compulsory product certification management method” and “Compulsory product certificate cancellation, suspension and withdrawal implementation rules”, and relevant regulations of 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 of cancellation, suspension and withdrawal.

9.5 Use of the certificate

Use of the certificate shall comply with the requirements of “Compulsory product certification management method”.

10 Certification marks

The management and use of certification marks shall comply with the provisions of “Compulsory product certification management method”.

10.1 Mark style permitted to use

The certified lamps shall use Safety-type (S) certification mark. The style is as follows:



10.2 Use requirements

The compulsory product certification marks shall be printed or moulded with non-standard specification. The marks shall be preserved permanently. The

Attachment 1: Product description of motor vehicle exterior lighting and light signal devices

1. Product description (Electronic submission is required. Certification body shall ensure that at least the following contents are included in its system):

- 1.1 Name and model of the product (specification)
- 1.2. Vehicle manufacturers and models of product (list may be attached)
- 1.3 Outline dimension (length X width X height) mm
- 1.4. Classification of lighting
- 1.5. Characteristics of optical system (the light intensity levels, light distribution angles, and parts & components which can change the optical effect by reflecting, refracting, absorbing and/or deforming light)
- 1.6. The photoelectric characteristics of the light source, for the lighting with the unchangeable light sources (rated voltage, rated power and filament shape, etc.)
- 1.7. Material of reflector
- 1.8. Coating material of reflector
- 1.9. Light source's (bulb or module) model, luminous flux and identification code
- 1.10. Materials of retro-reflector and retro-reflecting optical unit characteristic
- 1.11. The fluorescent material of rear mark plate and parts affecting retro-reflecting material or device
- 1.12. Description combination / mixture / compound
- 1.13. Other things need to explain.
- 1.14 Products difference description within units (Only applicable to the same unit with various models)

2. Photos and product drawings

- 2.1. The photos that is enough to recognize the main characteristics of the product.
- 2.2. Assembly drawing that is enough to recognize main characteristics of the product.

determine if those resources can be continuously obtained and used appropriately. Factory shall preserve relevant records with exterior resources, such as contract and usage record.

2. Documents and records

2.1. Factory shall establish procedure to maintain documents and determine if they have full control on the files and records. The standard and norms of product design shall be higher than the certification requirements. For the main contents which affect the consistency of products, factory shall have design documents such as drawings, templates and critical components list, process files and operation instructions. And ensure the documents to be continuously valid.

2.2. Factory shall ensure the document sufficiency and applicability, and valid version of the documents used.

2.3. Factory shall establish and maintain documented procedures to define the controls for the identification, storage, protection and disposition of quality records. Records shall be legible, integral to provide evidence of product conformity to requirements. Records shall be retained for an appropriate period and meet the requirements of laws and regulations. Documents shall provide records of last inspection, which is no less than 24 months.

2.4. Factory shall identify and preserve important files and quality information on product certification, including type test report, factory inspection result, CCC certificate information (validity, suspension, cancellation and withdrawal), approval of certification change, supervision sampling test report, product quality complaints and handling results etc.

3. Purchasing and critical components control

3.1 Purchasing control

Factory shall identify and specify the technical requirements in purchasing documents. The technical requirements shall ensure that the products meet the certification requirements. *The purchasing documents shall include the requirements to approve the product and manufacturing process of critical components and raw material suppliers.*

Factory shall establish the critical components manufacturer catalogue and record the information, and purchase from the qualified supplier. Factory shall preserve the records of critical components purchasing and use, such as in-and-out warehouse list, and standing account.

3.2. Critical components quality control

3.2.1 Factory shall establish procedures, *to maintain documented procedures, which include test items, methods, frequency and criteria.* Factory shall also make record on the validity and inspection on the critical components when they are stocked in the warehouse.

3.2.2. For the quality of the critical components, factory shall choose the

Product with unidentified or suspect status shall be classified as nonconforming product.

Useless products must be controlled by the similar method to non-conforming product.

Disposal record of the non-conformity product shall be maintained.

6.2. For the external information on nonconforming product, including national and provincial supervision and random inspection, product recall and client complaint, factory shall analyse the reasons and make proper corrective actions. Factory shall keep record on the information about nonconforming product, reason analysis and disposal & corrective actions.

6.3. Factory shall inform the certification body on time when there is serious quality problem about the certified product (including product recall and unqualified result from national and provincial supervision and random inspection).

7. Internal quality audit

Internal audit procedures shall be established and documented to ensure the validity of the quality system and the consistency of the certified products. The results of internal audit shall be maintained.

Factory shall keep records of all complaints, especially to the products that do not comply with the requirements of relevant standard, and make these complaints as the inputs of the internal audit.

The factory shall conduct internal audits at appropriate interval to determine whether the quality management system is effective. The factory shall audit product at appropriate interval and stage of production to verify compliance to all specified requirements. Corrective and preventive actions shall be taken, and records shall be maintained.

8. Product protection and delivery

Product protections, including packing, carrying and storage made by factory in purchasing, manufacturing and inspection, shall not affect the products' consistency to the relevant standards. When necessary, factory shall control the process of production delivery.

In order to detect deterioration, the condition of product in storage shall be assessed at appropriate planned intervals.

9. CCC certificate and markings

The management and use of CCC certificate and markings shall be in accordance with "Compulsory product certification management method" and "Compulsory product certification mark management method". For the unified printed standard-specification CCC markings or CCC markings that are printed or moulded, factory shall keep the usage record. For the following products, CCC markings must not

Attachment 4: Standards for certification

GB 4599 Photometric characteristics of headlamps for motor vehicles

GB 21259 Headlamps equipped with gas-discharge light sources for motor vehicle

GB 25991 Automotive headlamps with LED light sources and/or LED modules

GB 4660 Motor vehicle front fog lamps equipped with filament lamps

GB 11554 Photometric characteristics of rear fog lamp for power-driven vehicles and their trailers

GB 5920 Photometric characteristics of front and rear position lamps end-outline marker lamps and stop lamps for motor vehicles and their trailers

GB 15235 Photometric characteristics of reversing lamps for power-driven vehicles

GB 17509 Photometric characteristics of direction indicators for motor vehicles and their trailers

GB 18408 Photometric characteristics of devices for the illumination of rear registration plates of motor vehicles and their trailers

GB 18409 Photometric characteristics of parking lamps for power-driven vehicles

GB 18099 Photometric characteristics of side-marker lamps for motor vehicles and their trailers

GB 23255 Photometric characteristics of daytime running lamps for motor vehicles

GB 5948 Photometric characteristics of motorcycle headlamps equipped with filament light sources

GB 19152 Photometric characteristics of moped headlamps

GB 17510 Photometric characteristics of light-signalling devices for motorcycles

GB 11564 Retro-reflector device for motor vehicles

GB 25990 Rear-making plates for vehicles and their trailers

GB/T 30036 Adaptive front-lighting system for motor vehicles

GB/T 30511 Photometric characteristics of cornering lamps for motor vehicle

_____ END _____

This is an excerpt of the PDF (Some pages are marked off intentionally)

Full-copy PDF can be purchased from 1 of 2 websites:

1. <https://www.ChineseStandard.us>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Select your country (currency), for example: USA (USD); Germany (Euro).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Tax invoice can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with download links).

2. <https://www.ChineseStandard.net>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Add to cart. Only accept USD (other currencies - <https://www.ChineseStandard.us>).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with PDFs attached, invoice and download links).

Translated by: Field Test Asia Pte. Ltd. (Incorporated & taxed in Singapore. Tax ID: 201302277C)

About Us (Goodwill, Policies, Fair Trading...): <https://www.chinesestandard.net/AboutUs.aspx>

Contact: Wayne Zheng, Sales@ChineseStandard.net

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

----- The End -----