Proposal for Amendment to the Legal Inspection Regulation for Plugs and Socket-Outlets for Fixed Wiring, Adapters and Cord Sets

By the Bureau of Standards, Metrology and Inspection (BSMI), Ministry of Economic Affairs (MOEA)

Introduction:

In accordance with the Commodity Inspection Act, plugs and socket-outlet for fixed wiring, adapters and cord sets are currently subject to mandatory inspection. To enhance consumer protection, the BSMI intends to revise the inspection standards for Plugs and Socket-outlets for fixed wiring and Adapters from [CNS 690 (1998), IEC 60884-2-5 (1995) or IEC 60884-1(1994-10)+ "Types of plugs and socket-outlets" of CNS 690 (1998)] to [CNS 690(2016-03), CNS 15767-1(2014-10), CNS 15767-2-5(2014-10)]. And for the cord sets, the inspection standards will be revised from [CNS 10917(1996), CNS 10917-1(1998), CNS 10917-2(1996), CNS 10917-3(1996), IEC 60799(1998)] to [CNS 690(2016-03), CNS 15767-1(2014-10), CNS 15767-2-7(2016-03), CNS 15872(2016-03), CNS 6797(1991-11), CNS 60799(2016-03), CNS 60320-1(2001-06), CNS 61242(2016-03)].

*(Note: the Cord sets here includes the Cord extension sets, Non-detachable cord sets, Detachable cord sets, Cord sets and Cable reels as seen in the following table)

In addition to the safety requirements for the commodities above, the BSMI proposes to require marking of presence conditions of restricted substances. Such markings shall be made in accordance with Section 5 of CNS 15663(2013-07) on the body, packages, stickers or the instruction books of the product. For those who utilize website as a means to announce "the presence conditions of the restricted substances," the website address shall be clearly stated on the body, packages, stickers or the instruction books of the product.

The conformity assessment procedures remain the same, i.e. Registration of Product Certification (RPC) or Type-approved Batch Inspection (TABI).

Proposed date of implementation:

1 January 2018.

Table of commodities (HS/CCCN Codes) covered and their applicable inspection standards

Description of Goods	Inspection Standards	C.C.C. Code (the first 6 digits are the same as HS Code)(Reference)	Conformity Assessment Procedures
Plugs and socket-outlets for fixed wiring (Inspection scope: Voltage not exceeding 250 Vac with types and dimensions same or consistent with the national standard CNS 690).	CNS 690(2016-03), CNS 15767-1(2014-10), Section 5 "Marking of Presence" of CNS 15663(2013-07)	8536.69.90.00.6A	RPC Scheme (Module II+III) or TABI Scheme
Adapters (Inspection scope : Voltage not exceeding 250 Vac with types and dimensions same or consistent with the national standard CNS 690, excluding the type of plug-end conforms to figure 16 of CNS 690)	CNS 690(2016-03), CNS 15767-1(2014-10), CNS 15767-2-5(2014-10) Section 5 "Marking of Presence" of CNS 15663(2013-07)	8536.69.90.00.6C	RPC Scheme (Module II+III) or TABI Scheme

Cord extension sets (Inspection scope: Voltage not exceeding 250 Vac)	CNS 690(2016-03), CNS 15767-1(2014-10), CNS 15767-2-7(2016-03) Section 5 “Marking of Presence” of CNS 15663(2013-07)	8544.42.90.90.9A	RPC Scheme (Module II+III) or TABI Scheme
Non-detachable cord sets(Inspection scope：Voltage not exceeding 250 Vac)	CNS 690(2016-03), CNS 15767-1(2014-10), Section 5 “Marking of Presence” of CNS 15663(2013-07)	8544.42.90.90.9B	RPC Scheme (Module II+III) or TABI Scheme
Detachable cord sets(Inspection scope：Voltage not exceeding 250 Vac)	CNS 690(2016-03), CNS 15872(2016-03), CNS 6797(1991-11), Section 5 “Marking of Presence” of CNS 15663(2013-07)	8544.42.90.90.9C	RPC Scheme (Module II+III) or TABI Scheme
Cord sets (Inspection scope: Voltage not exceeding 250 Vac)	CNS 690(2016-03), CNS 60799(2016-03), IEC 60320-1(2001-06), Section 5 “Marking of Presence” of CNS 15663(2013-07)	8544.42.90.90.9D	RPC Scheme (Module II+III) or TABI Scheme
Cable reels (Inspection scope: Voltage not exceeding 250 Vac)	CNS 690(2016-03), CNS 61242(2016-03), Section 5 “Marking of Presence” of CNS 15663(2013-07)	8544.42.90.90.9E	RPC Scheme (Module II+III) or TABI Scheme

Remarks：

1. The inspection standard CNS 15767-1 corresponds with the international standards IEC 60884-1(2006) “Plugs and socket-outlets for household and similar purposes-Part 1: General requirements.”
2. The inspection standard CNS 15767-2-5 corresponds with the international standards IEC 60884-2-5(1995) “Plugs and socket-outlets for household and similar purposes-Part 2-5: Particular requirements for adaptors.”
3. The inspection standard CNS 15767-2-7 corresponds with the international standard IEC 60884-2-7 (2011) “Plugs and socket-outlets for household and similar purposes-Part 2-7: Particular requirements for cord extension sets.”
4. The inspection standard CNS 60799 corresponds with the international standard IEC 60799(1998) “Electrical accessories cord sets and interconnection cord sets.”
5. The CNS inspection standards can be accessible at CNS online service website: www.cnsonline.com.tw. You can preview the content of these standards for free. If you want to download and print, please contact our service counter of Information Center at BSMI.
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   Fax: +886-2-8192-6746
   E-mail: cnsonline@hibox.hinet.net
   infocenter@bsmi.gov.tw

The two kinds of conformity assessment schemes for the commodities are as follows:

1. Registration of Product Certification (RPC) Scheme (Module II + III)

Under this procedure, domestic manufacturers or importers must have their products type-tested in advance (Module II) before applying for registration of their products. Manufacturers or importers will also be required to ensure by declaration that all products made at their manufacturing facilities or imported are in conformity with the prototypes submitted for type test at Module II stage, and the declaration procedure is called Module III (conformity-to-type declaration). The conformity-to-type declaration shall be drawn up by

the manufacturer or the authorized local representative, declaring that the mass-produced products will comply with the prototype as described in the type-test report.

Products will be allowed to use the Commodity Inspection Mark with the letter 'R' and the identification number given by the BSMI, after they are certified and registered with the BSMI. These products can then pass through customs directly without any further inspection if not being sampled by RPC border check procedure. The application fee and annual fee for RPC are both NT$5,000(about US$170) for each certification, and the RPC certifications are valid for three years. If there are any serial products, the extra NT$3,000(about US$102) of application fee is needed for every application in each certification.

The fees for type-testing vary by products and depend on the fee schedule of the testing laboratories.

2. Type-approved Batch Inspection (TABI) Scheme

Under this scheme, manufacturers or importers shall have their products type-tested by the BSMI or BSMI-recognized testing laboratories, and then file an application for type-approval with the BSMI or its branches.

After manufacturers or importers have obtained a type-approval certificate, they are still required to file an application for batch inspection with the BSMI each time before their products arrive at the port of entry. The BSMI will then perform inspection with simplified procedures. Additional samples may be required for further testing if deemed necessary. The application fee for a type-approval is NT$3,500, and a type-approval certificate is generally valid for three years.

The fees for type-testing vary by products and depend on the fee schedule of the testing laboratories.

*Further information about the two schemes is also available on the BSMI web site at http://www.bsmi.gov.tw/wSite/ct?xItem=8673&ctNode=811&mp=2

Locations to apply for Type Testing:
The BSMI-recognized testing laboratories.

Locations to apply for Registration of Product Certification:
The BSMI or its branch offices.

Time required for Registration of Product Certification:
Fourteen working days. (This period does not include the time for corrective actions by the applicant due to deficiencies in the documents or samples; another seven working days may be required if additional tests are required)

Related requirements:

1. The revised inspection standards of the commodities listed above will come into force from the date of announcement and the original inspection standards will automatically become invalid from January 1st 2018.

2. "Plugs and sockets-outlets for fixed wiring consistent with the type of plug-end standard CNS 690" means：

(1) The types and poles of pins conform to the CNS 690 and could be fit in with the corresponding sockets-outlets specified by CNS 690.

(2) For those structures with sockets-outlets only, the types and base of pins conform to the CNS 690 and could be connected with the corresponding plug-pins.

3. The connectors of the cord sets shall conform to the IEC 60320-1(2001-06) and not applicable to the clause 5.1 of CNS 60799.

4. The certificate holders of the commodities shall follow the content stipulated in Section 5 "Marking of presence" of CNS 15663 and clearly mark "the presence conditions of the restricted substances" on the body, packages, stickers, or the instruction books of the commodities. For those who utilize website as a means to announce "the presence conditions of the restricted substances" of the commodities shall also clearly mark the website address on the body, packages, stickers, or the instruction books of the commodities.

5. The treatment of Certificates:

(1) Replacement:
Before 31 December 2017, the certificate holders shall prepare the type-test report in compliance with the revised standards, documents related to the location of the marking of presence, sample of the marking of presence (see Table 1 and Table 2) and the "Declaration of the Presence Condition of the Restricted Substances Marking" to apply for a replacement of the certificate(s) from the BSMI or its branches. Otherwise, certificate(s) will be rescinded. After replacement of certificate(s), the expiry date of the replaced certificate will remain the same as the original certificate.

(2) New application or extension:
From the date of publication, applicants shall prepare type-test report in compliance with the revised standards, documents related to the location of the marking of presence, sample of the marking of presence (see Table 1 and Table 2), and the "Declaration of the Presence Condition of the Restricted Substances Marking" to apply for certificate(s). If applicants apply for certificate(s) in accordance with the original inspection standards (without Section 5 "Marking of presence" of CNS 15663), the expiry date of the replaced certificate will be valid till 31 December 2017.

6. The Commodity Inspection Mark:

(1) The Commodity Inspection Mark shall be printed by the certificate holders. The identification number of the Commodity Inspection Mark consists of "The Letter(R or T)", "Designated Code (5 digits)" and "the presence conditions of the restricted substances" (e.g., RoHS or RoHS(XX,XX)).

(2) The identification number shall be placed to the below or right side of the graphic symbol and "the presence conditions of the restricted substances" shall be indicated in the second row.

(3) The size of the Mark can be applied proportionally on a prominent location of the commodities. However, the Mark shall be displayed clearly and made by the fixing pieces of substance which uneasily changed or blurred from deterioration.

(4) For RPC scheme, the examples of the Commodity Inspection Mark are listed below:

(5) For TABI scheme, the examples of the Commodity Inspection Mark are listed below:

(6) "RoHS" of the identification number: indicates "the content of restricted substance(s) other than exemption" of the commodities does not exceed the reference percentage value of presence condition.

"RoHS(XX,XX)" of the identification number: indicates "the content of restricted substance(s) (element XX, element XX, …) other than exemption" of the commodities exceeds the reference percentage value of presence condition.
The restricted substances: indicates Pb, Cd, Hg, Cr^{+6}, PBB, PBDE.

Example:

- RoHS(Pb): indicates that the Pb percentage content in certain parts of the commodity exceeds the reference percentage value of presence condition.
- RoHS(Cd,Cr^{+6},PBB): indicates that the Cd, Cr^{+6}, and PBB percentage content in certain parts of the commodity exceed the reference percentage value of presence condition respectively.

7. The C.C.C. Codes listed in the form are used for reference only. The commodities which product name listed in the form but not belong to the C.C.C. Code for reference after being recognized by the Customs Administration, Ministry of Finance or Bureau of Foreign Trade, M.O.E.A. shall still complete the inspection procedures before entering into the market.

8. This new public announcement of updated inspection standards supersedes the previous ones and won't be revised or amended until further notice decided and announced by the BSMI.

9. Commodities with combined types or multifunction-products shall comply with the respective inspection standards and the conformity assessment procedures of RPC scheme.

Table 1. Example of markings for the presence conditions of the restricted substances exceeds the reference percentage value of presence conditions

Equipment name: Cord extension sets, Type designation：XXX						
Unit	Restricted substances and its chemical symbols					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr^{+6})	Polybrominated Biphenyls (PBB)	Polybrominated Diphenyl Ethers (PBDE)
Plug Plastic Frame	Exceeding 0.1 wt %	○	○	○	○	○
Wire Material	○	○	○	○	○	○
Solder(Wire and Copper Sheet)	—	Exceeding 0.1 wt %	○	○	○	○
Socket Housing	○	○	○	○	○	○
Copper Sheet	○	○	Exceeding 0.01 wt %	○	○	Exceeding 0.1 wt %

Note 1: "Exceeding 0.1 wt %" and "exceeding 0.01 wt %" indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.

Note 2: "○" indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

Note 3: The "−" indicates that the restricted substance corresponds to the exemption.

Table 2. Example of markings for the content of the restricted substances other than exemption do not exceed the reference percentage value of presence condition

Equipment name: Cord extension sets, Model：YYY						
Unit	Restricted substances and its chemical symbols					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr^{+6})	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
Plug Plastic Frame	○	○	○	○	○	○
Wire Material	○	○	○	○	○	○
Solder(Wire and Copper Sheet)	−	○	○	○	○	○
Socket Housing	○	○	○	○	○	○
Copper Sheet	○	○	○	○	○	○
Note 1: "○" indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence. **Note 2:** The "−" indicates that the restricted substance corresponds to the exemption.						

Note *The 1st "name and model" row can be omitted if the position of "the markings for the presence conditions" shows clearly to specify the corresponding commodity.

*Multiple models could be shown together in the same field if "the markings for the presence conditions" can be applied to contemporarily.