Proposal for Amendments to the Legal Inspection Requirements for Seven Power Supply Equipment, Including Non-Vehicle-Mounted Chargers for Electric Motorcycles

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

Introduction:
In view of the rising risk of international incidents involving electric motorcycles, electric bicycles, and electrically power-assisted bicycles, the Bureau of Standards, Metrology and Inspection (BSMI) proposes to strengthen the regulatory requirements governing seven types of power supply equipment, including non-vehicle-mounted chargers for electric motorcycles.

The proposed amendments primarily make available an alternative conformity assessment procedure for business operators to choose from. In addition, electric vehicle conductive AC and DC/combo charging equipment, which were previously announced as subject to mandatory inspection, are incorporated into the revised scope following product regrouping. This does not alter the existing regulatory requirements applicable to those products; rather, it is intended to provide business operators with a comprehensive overview of the relevant regulatory measures.

Proposed date of implementation: 1 July 2027

Scope of covered products:

Item	Description of Goods	Inspection Standards	Conformity Assessment Procedures	C.C.C. Code (the first 6 digits are the same as HS Code) (Reference)
1	Non-vehicle-mounted chargers for electric motorcycles (inspection scope: excluding those for medical devices or telecommunications terminal equipment)	1. CNS 15936 (2016) 2. CNS 15425-1 (2015) 3. CNS 15663 (2013) Section 5 “Marking of Presence”	RPC Scheme (Module II+III) or TABI Scheme	8504.40.99.32.1A
2	Non-vehicle-mounted chargers for electric bicycles (inspection scope: excluding those for medical devices or telecommunications terminal equipment)	1. CNS 15936 (2016) 2. CNS 15425-1 (2015) 3. CNS 15663 (2013) Section 5 “Marking of Presence”	RPC Scheme (Module II+III) or TABI Scheme	8504.40.99.32.1B
3	Non-vehicle-mounted chargers for electrically power-assisted bicycles (inspection scope: excluding those for medical devices or telecommunications terminal equipment)	1. CNS 15936 (2016) 2. CNS 15425-1 (2015) 3. CNS 15663 (2013) Section 5 “Marking of Presence”	RPC Scheme (Module II+III) or TABI Scheme	8504.40.99.32.1C
4	Electric motorcycle charging system equipment (inspection scope: limited to stationary systems with conductive power supply)	1. CNS 16125 (2020) 2. CNS 16127 (2020) 3. CNS 16128 (2020) 4. CNS 15663 (2013) Section 5 “Marking of Presence”	RPC Scheme (Module II+VII) or TABI Scheme	8504.40.99.32.1D

5	Electric motorcycle battery swap system equipment (inspection scope: limited to stationary systems with conductive power supply)	1. CNS 16125 (2020) 2. CNS 16126 (2020) 3. CNS 15663 (2013) Section 5 “Marking of Presence”	RPC Scheme (Module II+VII) or TABI Scheme	8504.40.99.32.1E
6	Electric vehicle conductive AC charging equipment (less than or equal to 30 kW)	1. CNS 15511-1 (2021) 2. CNS 15511-21-2 (2021) 3. CNS 15700-1 (2017) 4. CNS 15700-2 (2021) 5. Technical Specification for Cybersecurity Testing of EV Charging System (2022) (Applicable to products with networking capabilities) 6. CNS 15663 (2013) Section 5 “Marking of presence”	RPC Scheme (Modules II+VII) or TABI Scheme	8504.40.99.31.2A
7	Electric vehicle conductive DC/combo charging equipment (less than or equal to 30 kW)	1. CNS 15511-1 (2021) 2. CNS 15511-21-2 (2021) 3. CNS 15511-23 (2021) 4. CNS 15511-24 (2013) 5. CNS 15700-1 (2017) 6. CNS 15700-3 (2021) 7. CNS 15700-3-1 (2021) 8. Technical Specification for Cybersecurity Testing of EV Charging System (2022) (Applicable to products with networking capabilities) 9. CNS 15663 (2013) Section 5 "Marking of presence"	RPC Scheme (Modules II+VII) or TABI Scheme	8504.40.99.31.2B

The import regulation code for all of the listed products is C02. The effective dates for Items 1-5 is 1 July 2027, and that for Items 6-7 is 1 July 2026.

Note:

1. For products listed under Items 1, 2 and 3, Sections 4.1, 4.2.3, and 4.3.5 of CNS 15425-1 (2015) are not applicable.

2. For products listed under Items 6 and 7 that have obtained BSMI-issued Voluntary Product Certification (VPC) certificates, if there are differences between the applicable testing standards, type-test reports may be obtained by asking the original designated testing laboratory to perform tests with respect to the differing items.

Description of the two types of conformity assessment procedures:

1. Registration of Product Certification (RPC) Scheme:

Registration of Product Certification is a conformity assessment scheme that allows the products to be certified before mass production begins. The scheme adopts a modular approach, with seven modules covering different stages of product design and production. For each product designated as subject to this scheme, a specific combination of modules is prescribed.

Under the RPC scheme, all products must undergo type testing (Module II) conducted by testing laboratories designated by the BSMI. The applicant is also required to prepare a declaration of conformity-to-type and ensure that the manufactured commodities conform to

the specifications set out in the type-test report (Module III). For higher-risk products, additional requirements apply, such as a quality management system assessment (Module IV or V) or factory inspection (Module VII), in order to ensure consistent production at the level verified by the product type test. RPC generally serves as an alternative to batch-based inspection procedures, and applicants may choose the procedure most appropriate for their products.

Once a product has been certified and registered by the BSMI, it will be allowed to use the Commodity Inspection Mark. In addition, unless selected by RPC border checks, such products can clear the customs directly without any further inspection. The default sampling rate for RPC border checks is low, although it may be adjusted in light of market surveillance results. The application fee and annual fee for RPC are both NT$5,000 per product type, and an RPC certificate is valid for three years.

Further information about this scheme is available on the BSMI website at https://www.bsmi.gov.tw/wSite/ct?xItem=102868&ctNode=9846&mp=2

2. Type-approved Batch Inspection (TABI) Scheme

Under this scheme, manufacturers or importers are required to have their products undergo type testing by the BSMI or by designated testing laboratories recognized by the BSMI, and to submit an application for Type Approval to the BSMI or its branches.

After obtaining a Type Approval Certificate, manufacturers or importers are required to apply to the BSMI for batch inspection each time before the products are released from the production premises or arrive at the port of entry. The BSMI will then review the application and supporting documents, and may require additional samples for further testing where necessary.

Once the products have passed the inspection, they will be allowed to use the Commodity Inspection Mark with the letter 'T' and a designated code (five digits) assigned by the BSMI. The application fee for a Type Approval Certificate is NT$3,500, and the certificate remains valid for three years. The fees for type testing vary by products and are determined in accordance with the fee schedule of the relevant testing laboratories.

Further information about this scheme is available on the BSMI website at https://www.bsmi.gov.tw/wSite/ct?xItem=102867&ctNode=9846&mp=2

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

Locations to apply for Factory Inspection:
The BSMI, its branches, or the BSMI-recognized factory inspection bodies.

Locations to apply for Type Approval / Registration of Product Certification:
The BSMI or its branches.

Locations to apply for Batch Inspection:
1. Domestic manufacturers or commissioned manufacturers: Applications for inspection shall be submitted to the BSMI or its branches having jurisdiction over the place of production. Where necessary, applications may be submitted across jurisdictions.
2. Importers or commissioned importers: Applications for inspection shall be submitted to the BSMI or its branches having jurisdiction over the port of entry. Where necessary, applications may be submitted across jurisdictions.

Time required for Type Approval / Registration of Product Certification:

Fourteen working days. (The period pending submission of supplementary documents or samples shall not be included in the calculation. In cases where samples are selected for testing, an additional seven working days shall be added after the samples and ancillary testing equipment have been delivered.)

Related requirements:

1. The amended inspection method (including the conformity assessment procedures) for the products listed under Items 1, 2, 3, 4 and 5 shall take effect from the date of announcement, and the pre-amendment inspection method shall cease to apply from 1 July 2027.

2. With effect from 1 July 2027, for the products listed under Items 1, 2, 3, 4 and 5, if Type-Approved Batch Inspection scheme is adopted, a Type Approval Certificate shall first be obtained, and applications for inspection shall then be submitted before the products are imported or released from the production premises; if RPC scheme is adopted, a RPC Certificate shall be obtained before the products are released from the production premises or arrive at the port of entry.

3. For products listed under Items 6 and 7:

   (a) With effect from 1 July 2026, imported products and domestically manufactured products shall be subject to mandatory inspection. The applicable conformity assessment procedures shall be Registration of Product Certification (Module II+VII) or Type-Approved Batch Inspection, which are available in parallel for business operators to choose from. If Type-Approved Batch Inspection is chosen, a Type Approval Certificate shall first be obtained, and applications for inspection shall then be submitted before the products are imported or released from the production premises. If RPC is chosen, a RPC Certificate shall be obtained before the products are released from the production premises or arrived at the port of entry.

   (b) From 25 December 2024, the BSMI may accept applications for Type Approval or RPC. Where an application is reviewed and approved by the BSMI, a Type Approval Certificate or a RPC Certificate shall be issued. The certificate shall be valid for a period of three years from the date of issuance. However, where the certificates is issued on or before 30 June 2026, the three-year validity period shall commence on 1 July 2026.

4. The products listed in the table of scope shall, in accordance with Section 5 "Marking of Presence" of CNS 15663 (2013), indicate the presence of restricted substances, in the format prescribed in Table 1 and Table 2, on the product body, packaging, labels, or instructions. Where the information on the presence of restricted substances is provided by way of a webpage, the relevant URL shall be clearly indicated on the product body, packaging, labels, or instructions. The requirements of Section 5.3 regarding the marking location shall not apply.

5. For listed products, the labeling requirements for the Commodity Inspection Mark are as follows:

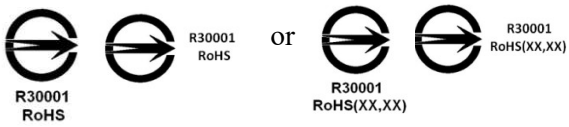
   (a) In accordance with the “Regulations Governing the Use of Commodity Inspection Mark,” the obligatory inspection applicant shall print the Commodity Inspection Mark, which is comprised of a graphic symbol with an identification number, on its own. The identification number shall consist of a Roman letter, a designated code (five digits), and the indication of presence condition of the restricted substances (e.g., RoHS or RoHS (XX,XX)). From the date of issuance of the RPC certificate, the obligatory inspection applicant may, in accordance with the relevant regulations, print the Commodity Inspection Mark and affix it in a conspicuous place on the product itself.

   (b) The identification number shall be placed below or to the right of the graphic symbol,

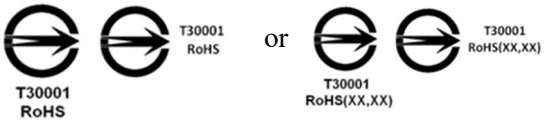
and the "presence condition of the restricted substances" shall be indicated in the second row.

(c) No fixed dimensions are prescribed for the Commodity Inspection Mark. However, it shall be affixed, in an appropriately proportioned size, at a conspicuous place on the product body. The mark shall be made of material not liable to deterioration, and its content shall be clear and legible, not easily effaced, and permanently affixed.

(d) Examples of the Commodity Inspection Mark under the RPC scheme are shown below:



(e) Examples of the Commodity Inspection Mark under the TABI scheme are shown below:



(f) RoHS indicates that, except for the exemptions specified in CNS 15663, the content of restricted substances in the product does not exceed the reference percentage value.

RoHS(XX,XX) indicates that, except for the exemptions specified in CNS 15663, the content of restricted substance(s) (XX) in the product exceeds the reference percentage value.

Restricted substances: Pb, Cd, Hg, Cr^{+6}, PBB, and PBDE, as set out in Annex A to CNS 15663.

Examples:

RoHS (Pb) indicates that the percentage content of Pb in certain parts of the commodity exceeds the reference percentage value specified in Annex A to CNS 15663.

RoHS (Cd, Cr^{+6}, PBB) indicates that the percentage content of Cd, Cr^{+6}, and PBB in certain parts of the commodity exceeds the respective reference percentage values specified in Annex A to CNS 15663.

6. The technical documents required for type testing shall be submitted in accordance with the "Directions Governing Type Approval of Electrical and Electronic Commodities."

7. Fees for product type testing are charged in accordance with the fee schedule of the BSMI-designated testing laboratories.

8. Fees for Type Approval / Registration of Product Certification are charged in accordance with the "Regulations Governing Fees for Commodity Inspection."

9. The C.C.C. Codes listed in the table are for reference only. Where a listed product is determined by the Customs Administration of the Ministry of Finance or the International Trade Administration of the Ministry of Economic Affairs not to fall within the listed reference C.C.C. Code, the product shall nevertheless complete the applicable inspection procedures before being placed on the market.

10. The inspection standards for the listed products shall be based on the versions specified in this announcement. Where a new or updated version is issued, the BSMI shall announce its implementation date in a separate notice.

11. Where a listed products is a combined-function or multifunction product and falls within the scope of mandatory inspection, it shall comply with the requirements of the relevant

inspection standards. Where such product is accompanied by accessories that fall within the scope of mandatory inspection, these accessories shall also comply with the requirements of the applicable inspection standards.

12. The term "medical devices" mentioned under the description of goods of the listed products means medical devices as defined in the Medical Devices Act.

13. The term "telecommunications terminal equipment" mentioned under the description of goods of the listed products means telecommunications terminal equipment as defined in the Telecommunications Management Act.

14. Listed products that have obtained either the testing report issued by the Ministry of Health and Welfare or an institution authorized thereby, or the vehicle safety testing report issued by a certification body commissioned by the Ministry of Transportation and Communications, shall not be included within the scope of products subject to mandatory inspection by the BSMI.

Table 1. Example of markings where the presence condition of the restricted substances exceed the reference percentage value

Equipment name: Non-vehicle-mounted chargers for electric motorcycles, Type designation: XXX (Note)						
Unit	Restricted substances and their chemical symbols					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr^{+6})	Polybrominated Biphenyls (PBB)	Polybrominated Diphenyl Ethers (PBDE)
Circuit Board	Exceeding 0.1 wt %	○	○	○	○	○
Case	○	○	Exceeding 0.1 wt %	○	○	Exceeding 0.1 wt %
Control Board	—	○	○	○	○	○
Accessory	—	○	○	○	○	○

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 is exempted.

Table 2. Example of markings where, except for the exempted substances, the content of the restricted substances does not exceed the reference percentage value

Equipment name: Non-vehicle-mounted chargers for electric motorcycles, Type designation: YYY (Note)						
Unit	Restricted substances and their chemical symbols					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr^{+6})	Polybrominated Biphenyls (PBB)	Polybrominated Diphenyl Ethers (PBDE)
Circuit Board	○	○	○	○	○	○
Case	○	○	○	○	○	○
Control Board	—	○	○	○	○	○
Accessory	—	○	○	○	○	○

Note 1: "○" indicates that the percentage content of the restricted substance does not exceed the percentage of reference value.

Note 2: The "–" indicates that the restricted substance is exempted.

Note: Where the location of the marking in the sample label is sufficient to clearly indicate its correspondence to the product, the field for equipment name and type designation may be omitted. Where the same sample label applies to multiple type designations, their designations can be indicated in the same field.