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Item 5.6. of the provisional agenda

COLLECTIVE AMENDMENTS

Regulations Nos. 4, 6, 7, 19, 23, 38, 50, 77, 87, 91, 98, 112, 113, 119 and [123]

Proposal for draft collective amendments to Regulations Nos. 4, 6, 7, 19, 23, 38, 50, 77, 87, 91, 98, 112, 113, 119 and [123]

Submitted by the expert from the Working Party "Brussels 1952"

The text reproduced below was prepared by the expert from the Working Party "Brussels 1952" (GTB) in order to insert into the Regulations references to Regulations Nos. 37 and 99 and to the International Electrotechnical Commission (IEC) Publication 60061, specifying the use of filament lamps and gas-discharge light sources. The modifications to the current texts of the Regulations are marked in **bold** characters.

Note: This document is distributed to the Experts of the Working Party on Lighting and Light-Signalling (GRE) only.

A. PROPOSAL

- A.1. Regulation No. 4 (Illumination of rear registration plates)
(The following text is based upon Supplement 12 to the Regulation)

Insert a new paragraph 1.4., to read:

"1.4. References made in this Regulation to standard (étalon) filament lamp(s) and to Regulation No. 37 shall refer to Regulation No. 37 and its series of amendments in force at the time of application for type approval."

Paragraph 2., amend to read:

"2. APPLICATION FOR APPROVAL

....

- (b) a brief technical description stating in particular, with the exception of lamps with non-replaceable light sources:
- (i) the category or categories of filament lamp prescribed; this filament lamp category shall be one of those contained in Regulation No. 37 **and its series of amendments in force at the time of application for type approval**; and/or

.... "

Insert new paragraphs 5.6. to 5.6.3., to read:

"5.6. In the case of replaceable filament lamp(s):

5.6.1. Any category or categories of filament lamp(s) approved according to Regulation No. 37 may be used, provided that no restriction on the use is made in Regulation No. 37 and its series of amendments in force at the time of application for type approval.

5.6.2. The design of the device shall be such that the filament lamp can be fixed in no other position but the correct one.

5.6.3. The filament lamp holder shall conform to the characteristics given in IEC Publication 60061. The holder data sheet relevant to the category of filament lamp used, applies."

- A.2. Regulation No. 6 (Direction indicators)
(The following text is based upon Supplement 15 to the 01 series of amendments)

Insert a new paragraph 1.4., to read:

- "1.4. References made in this Regulation to standard (étalon) filament lamp(s) and to Regulation No. 37 shall refer to Regulation No. 37 and its series of amendments in force at the time of application for type approval."**

Paragraph 2.2.2., amend to read:

- "2.2.2. a brief technical description stating in particular, with the exception of lamps with non-replaceable light sources:**
- (a) the category or categories of filament lamp(s) prescribed; this filament lamp category shall be one of those contained in Regulation No. 37 and its series of amendments in force at the time of application for type approval; and/or**
 - (b) the light source module specific identification code."**

Insert new paragraphs 5.5. to 5.5.3., to read:

- "5.5. In the case of replaceable filament lamp(s):**
- 5.5.1. Any category or categories of filament lamp(s) approved according to Regulation No. 37 may be used, provided that no restriction on the use is made in Regulation No. 37 and its series of amendments in force at the time of application for type approval.**
 - 5.5.2. The design of the device shall be such that the filament lamp can be fixed in no other position but the correct one.**
 - 5.5.3. The filament lamp holder shall conform to the characteristics given in IEC Publication 60061. The holder data sheet relevant to the category of filament lamp used, applies."**

- A.3. Regulation No. 7 (Front and rear position (side) lamps, stop-lamps and end-outline marker lamps). (The following text is based upon Supplement 12 to the 02 series of amendments)

Insert a new paragraph 1.7., to read:

- "1.7. References made in this Regulation to standard (étalon) filament lamp(s) and to Regulation No. 37 shall refer to Regulation No. 37 and its series of amendments in force at the time of application for type approval."**

Paragraph 2.2.2., amend to read:

- "**2.2.2.** A brief technical description stating, in particular, with the exception of lamps with non-replaceable light sources:
- (a) the category or categories of filament lamp(s) prescribed; this filament lamp category shall be one of those contained in Regulation No. 37 **and its series of amendments in force at the time of application for type approval**; in the case of a category S3 or S4 stop lamp, which is intended to be mounted inside the vehicle, the technical description shall contain the specification of the optical properties (transmission, colour, inclination, etc.) of the rear window(s);
 - (b) the light source module specific identification code."

Insert new paragraphs 5.8. to 5.8.3., to read:

"**5.8. In the case of replaceable filament lamp(s):**

5.8.1. Any category or categories of filament lamp(s) approved according to Regulation No. 37 may be used, provided that no restriction on the use is made in Regulation No. 37 and its series of amendments in force at the time of application for type approval.

5.8.2. The design of the device shall be such that the filament lamp can be fixed in no other position but the correct one.

5.8.3. The filament lamp holder shall conform to the characteristics given in IEC Publication 60061. The holder data sheet relevant to the category of filament lamp used, applies."

A.4. Regulation No. 19 (Front fog lamps)
(The following text is based upon Supplement 11 to the 02 series of amendments)

Insert a new paragraph 1.5., to read:

"**1.5. References made in this Regulation to standard (étalon) filament lamp(s) and to Regulation No. 37 shall refer to Regulation No. 37 and its series of amendments in force at the time of application for type approval."**

Paragraph 2.2.1., amend to read:

"**2.2.1.** a brief technical specification including the category of filament lamp used as listed in Regulation No. 37 **and its series of amendments in force at the time of application for type approval**, even if the filament lamp cannot be replaced;"

Paragraph 5.3., amend to read:

"**5.3.** The front fog lamp shall be equipped with one filament lamp approved according to Regulation No. 37, even if the filament lamp cannot be replaced. Any **Regulation No. 37** filament lamp may be used, provided that no restriction on the use is made in Regulation No. 37 **and its series of amendments in force at the time of application for type approval.**"

Insert new paragraphs 5.4. to 5.4.2., to read:

"**5.4. In the case of a replaceable filament lamp(s):**

5.4.1. The design of the device shall be such that the filament lamp can be fixed in no other position but the correct one.

5.4.2. The filament lamp holder shall conform to the characteristics given in IEC Publication 60061. The holder data sheet relevant to the category of filament lamp used, applies."

Paragraphs 5.4. and 5.5. (former), renumber as paragraphs 5.5. and 5.6.

A.5. Regulation No. 23 (Reversing lights)
(The following text is based upon Supplement 12 to the Regulation)

Insert a new paragraph 1.4., to read:

"**1.4. References made in this Regulation to standard (étalon) filament lamp(s) and to Regulation No. 37 shall refer to Regulation No. 37 and its series of amendments in force at the time of application for type approval.**"

Paragraph 2.2.2., amend to read:

"**2.2.2.** a brief technical description stating, in particular, with the exception of lamps with non-replaceable light sources:
(a) the category or categories of filament lamp(s) prescribed; this filament lamp category shall be one of those contained in Regulation No. 37 **and its series of amendments in force at the time of application for type approval**; and/or
(b) the light source module specific identification code."

Insert new paragraphs 5.4. to 5.4.3., to read:

"**5.4. In the case of replaceable filament lamp(s):**

5.4.1. Any category or categories of filament lamp(s) approved according to Regulation No. 37 may be used, provided that no restriction on the use is made in Regulation No. 37 and its series of amendments in force at the time of application for type approval.

5.4.2. The design of the device shall be such that the filament lamp can be fixed in no other position but the correct one.

5.4.3. The filament lamp holder shall conform to the characteristics given in IEC Publication 60061. The holder data sheet relevant to the category of filament lamp used, applies."

A.6. Regulation No. 38 (Rear fog lamps)
(The following text is based upon Supplement 12 to the Regulation)

Insert a new paragraph 1.4., to read:

"1.4. References made in this Regulation to standard (étalon) filament lamp(s) and to Regulation No. 37 shall refer to Regulation No. 37 and its series of amendments in force at the time of application for type approval."

Paragraph 2.2.2., amend to read:

"2.2.2. a brief technical description stating, in particular, with the exception of lamps with non-replaceable light sources:
(a) the category or categories of filament lamp(s) prescribed; this filament lamp category shall be one of those contained in Regulation No. 37 **and its series of amendments in force at the time of application for type approval**; and/or
(b) the light source module specific identification code;
(c) for a rear fog lamp of category F2, a concise description of the variable intensity control."

Insert new paragraphs 5.5. to 5.5.3., to read:

"5.5. In the case of replaceable filament lamp(s):

5.5.1. Any category or categories of filament lamp(s) approved according to Regulation No. 37 may be used, provided that no restriction on the use is made in Regulation No. 37 and its series of amendments in force at the time of application for type approval.

5.5.2. The design of the device shall be such that the filament lamp can be fixed in no other position but the correct one.

5.5.3. The filament lamp holder shall conform to the characteristics given in IEC Publication 60061. The holder data sheet relevant to the category of filament lamp used, applies."

- A.7. Regulation No. 50 (Position, stop and direction indicator lamps for mopeds and motorcycles). (The following text is based upon Supplement 9 to the Regulation)

Insert a new paragraph 2.3., to read:

- "2.3. References made in this Regulation to standard (étalon) filament lamp(s) and to Regulation No. 37 shall refer to Regulation No. 37 and its series of amendments in force at the time of application for type approval."**

Paragraph 3.2.2., amend to read:

- "3.2.2.** a brief technical description stating, in particular, with the exception of lamps with non-replaceable light sources:
(a) the category or categories of filament lamp(s) prescribed; this filament lamp category shall be one of those contained in Regulation No. 37 **and its series of amendments in force at the time of application for type approval**; and/or
(b) the light source module specific identification code."

Insert new paragraphs 6.4. to 6.4.3., to read:

- "6.4. In the case of replaceable filament lamp(s):**
- 6.4.1. Any category or categories of filament lamp(s) approved according to Regulation No. 37 may be used, provided that no restriction on the use is made in Regulation No. 37 and its series of amendments in force at the time of application for type approval.**
- 6.4.2. The design of the device shall be such that the filament lamp can be fixed in no other position but the correct one.**
- 6.4.3. The filament lamp holder shall conform to the characteristics given in IEC Publication 60061. The holder data sheet relevant to the category of filament lamp used, applies."**

- A.8. Regulation No. 77 (Parking lamps)
(The following text is based upon Supplement 9 to the Regulation)

Insert a new paragraph 2.4., to read:

- "2.4. References made in this Regulation to standard (étalon) filament lamp(s) and to Regulation No. 37 shall refer to Regulation No. 37 and its series of amendments in force at the time of application for type approval."**

Paragraph 3.2.1., amend to read:

- "3.2.1.** a brief technical description stating, in particular, with the exception of lamps with non-replaceable light sources:

- (a) the category or categories of filament lamp(s) prescribed; this filament lamp category shall be one of those contained in Regulation No. 37 **and its series of amendments in force at the time of application for type approval**; and/or
- (b) the light source module specific identification code."

Insert new paragraphs 6.4. to 6.4.3., to read:

"6.4. In the case of replaceable filament lamp(s):

6.4.1. Any category or categories of filament lamp(s) approved according to Regulation No. 37 may be used, provided that no restriction on the use is made in Regulation No. 37 and its series of amendments in force at the time of application for type approval.

6.4.2. The design of the device shall be such that the filament lamp can be fixed in no other position but the correct one.

6.4.3. The filament lamp holder shall conform to the characteristics given in IEC Publication 60061. The holder data sheet relevant to the category of filament lamp used, applies."

A.9. Regulation No. 87 (Daytime running lamps)
(The following text is based upon Supplement 8 to the Regulation)

Insert a new paragraph 2.4., to read:

"2.4. References made in this Regulation to standard (étalon) filament lamp(s) and to Regulation No. 37 shall refer to Regulation No. 37 and its series of amendments in force at the time of application for type approval."

Paragraph 3.2.2., amend to read:

- "3.2.2. a brief technical description stating, in particular, with the exception of lamps with non-replaceable light sources:**
- (a) the category or categories of filament lamp(s) prescribed; this filament lamp category shall be one of those contained in Regulation No. 37 **and its series of amendments in force at the time of application for type approval**; and/or
 - (b) the light source module specific identification code."

Insert new paragraphs 6.5. to 6.5.3., to read:

"6.5. In the case of replaceable filament lamp(s):

6.5.1. Any category or categories of filament lamp(s) approved according to Regulation No. 37 may be used, provided that no restriction on the use is made in Regulation No. 37 and its series of amendments in force at the time of application for type approval.

- 6.5.2. The design of the device shall be such that the filament lamp can be fixed in no other position but the correct one.
- 6.5.3. The filament lamp holder shall conform to the characteristics given in IEC Publication 60061. The holder data sheet relevant to the category of filament lamp used, applies."
- A.10. Regulation No. 91 (Side-marker lamps)
(The following text is based upon Supplement 8 to the Regulation)

Insert a new paragraph 2.4., to read:

"2.4. References made in this Regulation to standard (étalon) filament lamp(s) and to Regulation No. 37 shall refer to Regulation No. 37 and its series of amendments in force at the time of application for type approval."

Paragraph 3.2.2., amend to read:

- "3.2.2. a brief technical description stating, in particular, with the exception of lamps with non-replaceable light sources:
- (a) the category or categories of filament lamp(s) prescribed; this filament lamp category shall be one of those contained in Regulation No. 37 **and its series of amendments in force at the time of application for type approval**; and/or
 - (b) the light source module specific identification code."

Insert new paragraphs 6.4. to 6.4.3., to read:

- "6.4. In the case of replaceable filament lamp(s):
- 6.4.1. Any category or categories of filament lamp(s) approved according to Regulation No. 37 may be used, provided that no restriction on the use is made in Regulation No. 37 and its series of amendments in force at the time of application for type approval.
- 6.4.2. The design of the device shall be such that the filament lamp can be fixed in no other position but the correct one.
- 6.4.3. The filament lamp holder shall conform to the characteristics given in IEC Publication 60061. The holder data sheet relevant to the category of filament lamp used, applies."

- A.11. Regulation No. 98 (Headlamps with gas-discharge light sources)
(The following text is based upon Supplement 7 to the Regulation)

Insert a new paragraph 1.7., to read:

"1.7. References made in this Regulation to standard (étalon) filament lamp(s) and gas-discharge light source(s) shall refer to Regulations Nos. 37 and 99 respectively, and to their series of amendments in force at the time of application for type approval."

Paragraph 2.1.7., amend to read:

"2.1.7. the category of gas-discharge light source as listed in Regulation No. 37 or No. 99 and their series of amendments in force at the time of application for type approval.

For a distributed lighting system "

Paragraphs 5.7. to 5.7.4., amend to read:

"5.7. Replaceability of light sources

5.7.1. The gas-discharge light source(s) used in gas-discharge headlamps or in distributed lighting systems shall be approved according to Regulation No. 99 **and its series of amendments in force at the time of application for type approval.** Gas-discharge light source(s) not approved according to Regulation No. 99 can be used only in the case where they are a non-replaceable part of a light-generator. However, in the case of distributed lighting systems the light-generator can be replaceable without using special tools also in the case where the light-source used in it is not approved.

5.7.2. **In the case that one or more (additional) filament light sources are used in the gas-discharge headlamp, these filament light sources shall be approved according to Regulation No. 37 and its series of amendments in force at the time of application for type approval, provided that no restriction on the use is made in Regulation No. 37 and its series of amendments in force at the time of application for type approval.**

5.7.3. **The design of the device shall be such that the filament lamp, if any, can be fixed in no other position but the correct one.**

5.7.4. In the case of replaceable gas-discharge light sources **and in the case of additional filament light sources** the lamp holder shall conform to the dimensional characteristics as given on the data sheet of IEC Publication **60061**, relevant to the category of light source(s) used. **The light source(s)** shall fit easily into the headlamp."

- A.12. Regulation No. 112 (Headlamps emitting an asymmetrical passing beam)
(The following text is based upon Supplement 7 to the Regulation)

Insert a new paragraph 1.6., to read:

- "1.6. References made in this Regulation to standard (étalon) filament lamp(s) and to Regulation No. 37 shall refer to Regulation No. 37 and its series of amendments in force at the time of application for type approval."**

Paragraph 2.1.5., amend to read:

- "2.1.5. the category of the filament lamp(s) used, as listed in Regulation No. 37 and its series of amendments in force at the time of application for type approval."**

Paragraphs 5.3. to 5.5., amend to read:

- "5.3. The headlamp shall be equipped with filament lamp(s) approved according to Regulation No. 37. Any Regulation No. 37 filament lamp may be used, provided that no restriction on the use is made in Regulation No. 37 and its series of amendments in force at the time of application for type approval. 7/**
- 5.4. The design of the device shall be such that the filament lamp can be fixed in no other position but the correct one. 8/**
- 5.5. The filament lamp holder shall conform to the characteristics given in IEC Publication 60061. The holder data sheet relevant to the category of filament lamp used, applies."**

Paragraph 6.3.2., amend to read:

- "6.3.2. It is possible to use several light sources for the driving beam, provided that these light sources are listed in Regulation No. 37."**

- A.13. Regulation No. 113 (Headlamps emitting a symmetrical passing beam)
(The following text is based upon Supplement 5 to the Regulation)

Insert a new paragraph 1.5., to read:

- "1.5. References made in this Regulation to standard (étalon) filament lamp(s) and to Regulation No. 37 shall refer to Regulation No. 37 and its series of amendments in force at the time of application for type approval."**

Paragraph 2.1.3., amend to read:

- "2.1.3. the category of the filament lamp(s) used, as listed in Regulation No. 37 and its series of amendments in force at the time of application for type approval."**

Paragraphs 5.3. to 5.5., amend to read:

- "**5.3.** The headlamp shall be equipped with filament lamp(s) approved according to Regulation No. 37. Any Regulation No. 37 filament lamp may be used, provided that:
- (a) no restriction on the **use** is made in Regulation **No. 37 and its series of amendments in force at the time of application for type approval**;
 - (b) for Class A and B, its reference luminous flux for dipped-beam does not exceed 600 lm;
 - (c) for Class C and D, its objective luminous flux for dipped-beam does not exceed 2,000 lm.
- 5.4.** **The design of the device shall be such that the** filament lamp can be fixed in no **other** position but the correct one. 7/
- 5.5.** The filament lamp holder shall conform to the characteristics given in IEC Publication **60061**. The holder data sheet relevant to the category of filament lamp used, applies."

Paragraph 6.2.5.3., amend to read:

"6.2.5.3. For Class C or D headlamp:

....

Other general text:

ECE type approval at reference luminous flux according to Regulation **No. 37**.

Nominal aim for photometry:

.... "

A.14. Regulation No. 119 (Cornering lamps)
(The following text is based upon the original version of the Regulation)

Insert a new paragraph 1.3., to read:

"**1.3.** **References made in this Regulation to standard (étalon) filament lamp(s) and to Regulation No. 37 shall refer to Regulation No. 37 and its series of amendments in force at the time of application for type approval.**"

Paragraph 2.2.2., amend to read:

"**2.2.2.** a brief technical description stating, in particular, with the exception of lamps with non-replaceable light sources:

- (a) the category or categories of filament lamp(s) prescribed; this filament lamp category shall be one of those contained in Regulation No. 37 **and its series of amendments in force at the time of application for type approval**; and/or
- (b) the light source module specific identification code."

Insert new paragraphs 5.4. to 5.4.3., to read:

"5.4. In the case of replaceable filament lamp(s):

5.4.1. Any category or categories of filament lamp(s) approved according to Regulation No. 37 may be used, provided that no restriction on the use is made in Regulation No. 37 and its series of amendments in force at the time of application for type approval.

5.4.2. The design of the device shall be such that the filament lamp can be fixed in no other position but the correct one.

5.4.3. The filament lamp holder shall conform to the characteristics given in IEC Publication 60061. The holder data sheet relevant to the category of filament lamp used, applies."

A.15. [Regulation No. 123] (Adaptive front-lighting systems (AFS))
(The following text is based upon TRANS/WP.29/2005/31,
TRANS/WP.29/2005/31/Add.1 and TRANS/WP.29/2005/31/Corr.1)

Insert a new paragraph 1.21., to read:

"1.21. References made in this Regulation to standard (étalon) filament lamp(s) and gas-discharge light source(s) shall refer to Regulations Nos. 37 and 99 respectively, and to their series of amendments in force at the time of application for type approval."

Paragraph 2.1.4., amend to read:

"2.1.4 the category, as listed in Regulation No. 37 or 99 and their series of amendments in force at the time of the application for type approval, of replaceable and/or non-replaceable light source(s) used;"

Paragraphs 5.3. to 5.3.2., amend to read:

"5.3. The system shall not be equipped with light sources that are not approved according to Regulation No. 37 or 99 and their series of amendments in force at the time of application for type approval and/or for which a restriction on the use is made in Regulation No. 37;

5.3.1. If a light source is replaceable:

5.3.1.1. Its lamp holder shall conform to **the characteristics** given on the data sheet of IEC Publication No. **60061**, as referred to in the relevant light source Regulation.

5.3.1.2. **The design of the device shall be such that the filament lamp can be fixed in no other position but the correct one.**

5.3.2 If a light source is non-replaceable, it shall not be a part of a lighting unit that provides the passing beam in the neutral state."

B. JUSTIFICATION

At its fifty-sixth session, GRE adopted draft Supplement 28 to the 03 series of amendments to Regulation No. 37 proposing to approve certain filament lamps for replacement purposes only (ECE/TRANS/WP.29/GRE/56, paras. 8 and 9). During that session, it was also recommended to amend references to Regulation No. 37 in other lighting and light-signalling devices Regulations in order to ensure the correct interrelationship among these Regulations.

Therefore, GTB proposes to insert the additional text " ... and its series of amendments in force at the time of application for type approval ... " into paragraphs 2. and 5. of the lighting and light-signalling devices Regulations.

The references to the restrictions for use in Regulation No. 37 have been made explicit and more consistent throughout the lighting and light-signalling devices Regulations, while facilitating also references to other Regulations. In addition, a new system of restrictions on the use of light source categories in Regulation No. 37 is proposed in a parallel document by GTB (ECE/TRANS/WP.29/GRE/2007/17).

Although one of the major criteria for introduction of a filament lamp into Regulation No. 37 is usually a different key of the cap of the filament lamp, Regulations for light-signalling devices do not specify the holder requirements. Such provisions are covered by this proposal.

In head lighting Regulations, the references to the filament lamp holder characteristics (IEC Publication 61-2, third edition, 1969) required an update. Simplification is possible by leaving out the edition of the IEC publication since references of cap characteristics of light sources to IEC are updated regularly in Regulation No. 37 and IEC cap sheets do contain a version number and specify the relevant IEC holder sheets. Another simplification is to delete the reference to part number "2" of IEC publication 60061. However, parts 3. or 4. may be mentioned in some cases.

Example for a H1 light source in IEC 60061 (snapshot of part of the cap sheet):

	<p style="text-align: center;">PREFOCUS CAPS ASSEMBLY OF RING AND CAP ON FINISHED LAMP CULOTS PREFOCUS ASSEMBLAGE DE LA COLLERETTE ET DU CULOT SUR LA LAMPE TERMINEE P14.5s</p>	<p style="text-align: right;">Page 1/2</p>
<p style="text-align: center;">Dimensions in millimetres - Dimensions en millimètres</p> <p>The drawing is intended only to indicate the dimensions essential for interchangeability. Le dessin a pour seul but d'indiquer les dimensions essentielles pour l'interchangeabilité.</p> <p style="text-align: center;">For details of lampholder P14.5s, see sheet 7005-46. Pour les détails de la douille P14.5s, voir feuille 7005-46.</p>		