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Item 4.7.3 of the provisional agenda

**1958 Agreement – Consideration of draft amendments
to existing Regulations submitted by GRE****Proposal for Supplement 23 to the 01 series of amendments
to Regulation No. 6 (Direction indicators)****Submitted by the Working Party on Lighting and Light-Signalling***

The text reproduced below was adopted by the Working Party on Lighting and Light-Signalling (GRE) at its sixty-seventh session to introduce into the Regulation provisions for the use of light-emitting diode (LED) light sources. It is based on ECE/TRANS/WP.29/GRE/2011/7, as amended by para. 25 of the report (see ECE/TRANS/WP.29/GRE/67, para. 25). It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to the Administrative Committee AC.1 for consideration.

* In accordance with the programme of work of the Inland Transport Committee for 2010–2014 (ECE/TRANS/208, para. 106, ECE/TRANS/2010/8, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

Paragraph 1.3., amend to read:

"1.3. "Direction indicators of different types" means ...

...

- (b) The characteristics of the optical system (levels of intensity, light distribution angles, category of light source, light source module, etc.);
- (c) The category of direction indicator lamps;
- (d) The variable intensity control, if any.

A change of the colour of the light source or the colour of any filter does not constitute a change of type."

Paragraph 1.4., amend to read:

"1.4. References made ... for type approval.

References made in this Regulation to standard (étalon) LED light source(s) and to Regulation No. XXX shall refer to Regulation No. XXX 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 ... light sources:

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

Paragraph 3.2., amend to read:

"3.2. With the exception of lamps with non-replaceable light sources, bear a clearly legible and indelible marking indicating:

- (a) The category or categories of light source(s) prescribed; and/or
- (b) The light source module specific identification code"

Paragraphs 5.5 to 5.5.3., amend to read:

"5.5. In the case of replaceable light source(s):

5.5.1. Any category or categories of light source(s) approved according to Regulation No. 37 and/or Regulation No. XXX 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 or in Regulation No. XXX 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 light source can not be fixed in any other position but the correct one.

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

Paragraph 6.5., amend to read:

"6.4. In general ...

...

In the case of replaceable filament lamps, the filament lamps shall be operated at reference luminous flux during on time.

In the case of LED light sources all measurements shall be made at 6.75 V, 13.5 V or 28.0 V; the luminous flux value produced during on time shall be corrected. The correction factor is the ratio between the objective luminous flux and the value of the luminous flux during on time found at the voltage applied.

In all other cases the voltage as required in paragraph 7.1.1. shall be switched with a rise time and fall time shorter than 0.01 s; no overshoot is allowed.

In the case ...by the maximum intensity."

Paragraph 7.1.1., amend to read:

"7.1.1. In the case ... or coloured standard light source of the category prescribed for the device; supplied with the voltage:

- (a) In the case of filament lamp(s), it is necessary to produce the reference luminous flux required for that category of filament lamp;
- (b) In the case of LED light source(s) of 6.75 V, 13.5 V or 28.0 V; the luminous flux value produced shall be corrected. The correction factor is the ratio between the objective luminous flux and the mean value of the luminous flux found at the voltage applied."

Annex 4, paragraph 3.2., amend to read:

"3.2. For replaceable light source(s):

When equipped with light source(s) at 6.75 V, 13.5 V or 28.0 V, the luminous intensity values produced shall be corrected. For filament lamps the correction factor is the ratio between the reference luminous flux and the mean value of the luminous flux found at the voltage applied (6.75 V, 13.5 V or 28.0 V).

For LED light sources the correction factor is the ratio between the objective luminous flux and the mean value of the luminous flux found at the voltage applied (6.75 V, 13.5 V or 28.0 V).

The actual luminous fluxes of light source used shall not deviate more than 5 per cent from the mean value. Alternatively and in case of filament lamps only, a standard filament lamp"

Annex 5, paragraph 1.2.2., amend to read:

"1.2.2. If, in the case of a ... another standard light source."

Annex 6, paragraph 1.2.2., amend to read:

"1.2.2. If, in the case of a ... another standard light source."