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Item 4.9.4 of the provisional agenda

1958 Agreement:

Consideration of draft amendments to existing UN Regulations submitted by GRE

Proposal for Supplement 18 to the 06 series of amendments to UN Regulation No. 48 (Installation of lighting and light-signalling devices)

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 eighty-seventh session (ECE/TRANS/WP.29/GRE/87, paras. 17, 18, 20 and 24). It is based on ECE/TRANS/WP.29/GRE/2022/17, ECE/TRANS/WP.29/GRE/2022/18, ECE/TRANS/WP.29/GRE/2022/20 and informal document GRE-87-18. It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to the Administrative Committee (AC.1) for consideration at their March 2023 sessions.

* In accordance with the programme of work of the Inland Transport Committee for 2023 as outlined in proposed programme budget for 2023 (A/77/6 (Sect. 20), table 20.6), the World Forum will develop, harmonize and update UN Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.



Paragraph 5.5.3., amend to read:

"5.5.3. Satisfy the same colorimetric requirements."

Paragraph 5.5.4., amend to read:

"5.5.4. Have substantially identical photometric characteristics. This shall not apply to a matched pair of a function and/or an AFS."

Paragraph 6.1.8., for "Circuit-closed" read "Closed-circuit".

Paragraph 6.1.8.1., for 6.1.7.1. read 6.1.7.2.

Paragraphs 6.1.9.3.1. and 6.1.9.3.1.1., for 6.1.7.1. read 6.1.7.2.

Paragraph 6.1.9.3.2., for 6.1.7.1. read 6.1.7.2.

Paragraph 6.1.9.3.4.(a), for 6.1.7.1. read 6.1.7.2.

Paragraph 6.1.9.3.5., for 6.1.7.1. read 6.1.7.2.

Paragraph 6.2.8.2., amend to read:

"6.2.8.2. A visual failure tell-tale whether flashing or not is mandatory:

- (a) In the case where the whole beam or the kink of the elbow of the cut-off is moved to produce bend lighting; or
- (b) If one or more LED modules are used to produce the principal dipped-beam, except when they are wired so that the failure of any one LED module causes all of them to stop emitting light.

It shall be activated:

- (a) In the event of a malfunction of the displacement of the kink of the elbow of the cut-off; or
- (b) In case of a failure of any one of the LED module(s) producing the principal dipped-beam, except when they are wired so that the failure of any one LED module causes all of them to stop emitting light.

It shall remain activated while the failure is present. It may be cancelled temporarily, but shall be repeated whenever the device, which starts and stops the propulsion system, is switched ON and OFF."

Paragraph 6.3.5., footnote 13, delete.

Paragraph 6.3.6.1.1., reference to footnote 13, delete.

Paragraph 6.3.8., amend to read:

"6.3.8. Tell-tale
Closed-circuit tell-tale mandatory."

Paragraph 6.4.8., amend to read:

"6.4.8. Tell-tale
Tell-tale optional, however a tell-tale indicating failure is mandatory if required by the component regulation."

Paragraph 6.5.8., reference to footnote 13, delete.

Paragraph 6.6.8., for "circuit-closed" read "closed-circuit".

Paragraph 6.7.8., amend to read:

"6.7.8. Tell-tale
Tell-tale optional, however a tell-tale indicating failure is mandatory if required by the component regulation."

Paragraph 6.9.8., for "Circuit-closed" read "Closed-circuit".

Paragraph 6.10.8., for "Circuit-closed" read "Closed-circuit".

Paragraph 6.11.8., amend to read:

"6.11.8. Tell-tale

Closed-circuit tell-tale mandatory.

A tell-tale indicating failure is mandatory if required by the component regulation."

Paragraph 6.12.8., amend to read:

"6.12.8. Tell-tale

Closed-circuit tell-tale optional. If there is one, it shall not be possible to confuse it with the tell-tale for the front and rear position lamps.

However, a tell-tale indicating failure is mandatory if required by the component regulation."

Paragraph 6.18.8., amend to read:

"6.18.8. Tell-tale

Tell-tale optional. If it exists its function shall be carried out by the tell-tale required for the front and rear position lamps.

However, a tell-tale indicating failure is mandatory if required by the component regulation."

Paragraph 6.19., headline, for "Day-time" read "Daytime".

Paragraph 6.19.7.3, footnote 14, delete.

Paragraph 6.20. amend to read:

"6.20. Cornering lamp (UN Regulation No. 119 or 149)"

Paragraph 6.20.8., amend to read:

"6.20.8. Tell-tale

None. However, a tell-tale indicating failure is mandatory if required by the component regulation."

Paragraph 6.22.4.1.2., footnote 15, renumber to 13.

Paragraph 6.22.7.4.3., amend to read:

"6.22.7.4.3. The class E mode(s) of the passing-beam shall not operate unless the vehicle's speed exceeds 60 km/h and one or more of the following conditions is/are automatically detected:

- (a) The road characteristics correspond to motorway conditions¹⁴ or the vehicle's speed exceeds 110 km/h (E-signal applies);
- (b) In case of a class E mode of the passing-beam which, according to the system's approval documents /communication sheet, complies with a "data set" of UN Regulation No. 123, Annex 3, Table 6, or of UN Regulation No. 149, Table 14 only.

Data set E1: the vehicle's speed exceeds 100 km/h (E1-signal applies);

Data set E2: the vehicle's speed exceeds 90 km/h (E2-signal applies);

Data set E3: the vehicle's speed exceeds 80 km/h (E3-signal applies)."

Paragraph 6.22.7.4.5., footnote 17, renumber to 15.

Paragraph 6.22.9.1., amend to read:

"6.22.9.1. An AFS shall be permitted only in conjunction with the installation of headlamp cleaning device(s) according to UN Regulation No. 45¹⁶ for at least

those lighting units, which are indicated under item 9.2.3. of the communication form conforming to the model in Annex 1 to UN Regulation No. 123 or under item 9.3.2.3. of the communication form conforming to the model in Annex 1 to the 00 series of amendments to UN Regulation No. 149, or under item 9.2.2.3. of the communication form conforming to the model in Annex 1 to the 01 series of amendments to UN Regulation No. 149, if the total objective luminous flux of the light sources of these units exceeds 2,000 lm per side, and which contribute to the class C (basic) passing-beam."

Paragraph 6.24.9.2., for "day-time" read "daytime".

Paragraph 12.2., *footnote 19*, renumber to 17.

Annex 1,

Item 9.2., amend to read:

- "9.2. Dipped-beam headlamps: yes/no²
- 9.2.1. Tell-tale indicating failure, as required by component regulation and/or indicating failure of bend lighting function as required in paragraph 6.2.8.1., fitted: yes/no²

Item 9.4., amend to read:

- "9.4. Reversing lamps: yes/no²
- 9.4.1. Tell-tale indicating failure, as required by component regulation, fitted: yes/no²

Item 9.13., amend to read:

- "9.13. Rear fog-lamps: yes/no²
- 9.13.1. Tell-tale indicating failure, as required by component regulation, fitted: yes/no²

Item 9.14., amend to read:

- "9.14. Parking lamps: yes/no²
- 9.14.1. Tell-tale indicating failure, as required by component regulation, fitted: yes/no²

Item 9.20., amend to read:

- "9.20. Side marker lamps: yes/no²
- 9.20.1. Tell-tale indicating failure, as required by component regulation, fitted: yes/no²

Item 9.23., amend to read:

- "9.23. Cornering lamps: yes/no²
- 9.23.1. Tell-tale indicating failure, as required by component regulation, fitted: yes/no²
