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Item 4.7.9 of the provisional agenda

**1958 Agreement – Consideration of draft amendments
to existing Regulations submitted by GRE**

Proposal for Supplement 1 to the 01 series of amendments to Regulation No. 112 (Headlamps emitting an asymmetrical passing beam)

Submitted by the Working Party on Lighting and Light-Signalling (GRE)*

The text reproduced below was adopted by the Working Party on Lighting and Light-Signalling (GRE) at its sixty-fourth session. It is based on informal document No. GRE-64-17, as reproduced in Annex X to the report. It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to the Administrative Committee (AC.1) for consideration (ECE/TRANS/WP.29/GRE/64, para. 36).

* In accordance with the programme of work of the Inland Transport Committee for 2006–2010 (ECE/TRANS/166/Add.1, 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 6.1.3., amend to read:

"6.1.3. Apart from LED module(s), the headlamps shall be checked by means of an uncoloured standard (étalon) filament lamp designed for a rated voltage of 12 V.

6.1.3.1. During the checking of the headlamp, the voltage at the terminals of the filament lamp shall be regulated as to obtain the reference luminous flux at 13.2V as indicated for each filament lamp at the relevant data sheet of Regulation No. 37.

However, if a filament lamp of category H9 or H9B is used for the principal passing beam, the applicant may choose the reference luminous flux at 12.2V or 13.2V as indicated in the relevant data sheet of Regulation No. 37 and a reference stating which voltage was chosen for type approval shall be made in item 9 in the communication form of Annex 1.

6.1.3.2. In order to protect the standard (étalon) filament lamp during the process of photometric measurement it is permissible to carry out the measurements at a luminous flux that differs from the reference luminous flux at 13.2V. If the Technical Service chooses to carry out measurements in such a manner, the luminous intensity shall be corrected by multiplying the measured value by the individual factor F_{lamp} of the standard (étalon) filament lamp in order to verify the compliance with the photometric requirements where:

$$F_{lamp} = \Phi_{reference} / \Phi_{test}$$

$\Phi_{reference}$ is the reference luminous flux at 13,2V as specified in the relevant data sheet of Regulation 37

Φ_{test} is the actual luminous flux used for the measurement

However, where the reference luminous flux of 12.2V as specified in the data sheet for the category H9 or H9B is chosen, this procedure is not permitted.

6.1.3.3. The headlamp shall be considered acceptable if it meets the requirements of paragraph 6. with at least one standard (étalon) filament lamp, which may be submitted with the headlamp."

Annex 1, item 9, amend to read:

"9. Brief description:

Category as described by the relevant marking: 3/

Number and category(s) of filament lamp(s):

Reference luminous flux used for the principal passing beam (lm):.....

Principal passing beam operated at approximately (V):

Measures according to paragraph 5.8....

Number and specific identification code(s) of LED module(s).....

Number and specific identification code(s) of electronic light source control gear(s)

Total objective luminous flux as described in paragraph 5.9. exceeds 2,000 lumen: yes/no/does not apply 2/

The adjustment of the cut-off has been determined at: 10 m/25 m/does not apply 2/.....

The determination of the minimum sharpness of the "cut-off" has been carried out at: 10 m/25 m/does not apply 2/....."
