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## Economic Commission for Europe

### Inland Transport Committee

### World Forum for Harmonization of Vehicle Regulations

#### Working Party on Lighting and Light-Signalling

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Item 9 of the provisional agenda

#### Regulation No. 19 (Front fog lamps)

## **Proposal for Supplement 5 to the 04 series of amendments to Regulation No. 19 (Front fog lamps)**

### **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) amending the cut-off requirements of Regulation No. 19. The modifications to the existing text of the Regulation are marked in bold for new or strikethrough for deleted characters.

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\* 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.

## I. Proposal

Paragraph 6.4.2.2., amend to read:

"6.4.2.2. The beam shall produce on this aiming screen, over a width of not less than 5.0 degrees on both sides of the line v, a symmetrical and substantially horizontal cut-off to enable visual vertical adjustment. In the case that visual aim leads to problems or ambiguous positions, **the measurement of the cut-off quality and the instrumental method as specified in paragraphs 4. and 5. of Annex 9 shall be applied following a confirmation of the cut off quality as described in paragraph 6.4.2.3.** "

Paragraph 6.4.2.3., should be deleted:

~~"6.4.2.3. The sharpness of the cut off shall be tested according to the requirements in paragraph 4.1.2. of Annex 9. The value of G shall not be less than 0.08. The linearity of the cut off shall be tested ... do not deviate by more than  $\pm 0.20$  degrees."~~

Paragraph 6.4.2.4. (former), renumber as paragraph 6.4.2.3.

## II. Justification

1. UN Regulations Nos. 98 and 112 require that the cut-off quality (Sharpness (G value) and linearity of the cut-off) are only assessed in the case that the vertical adjustment cannot be performed repeatedly to the required position due to the unclear cut-off, i.e.:

UN Regulation No. 98 states:

"6.2.2.4. If, however, vertical adjustment cannot be performed repeatedly to the required position within the tolerances described in paragraph 6.2.2.3. above, the instrumental method of Annex 10, paragraphs 2. and 3. shall be applied to test compliance with the required minimum quality of the "cut-off" and to perform the vertical and horizontal adjustment of the beam."

UN Regulation No. 112 states:

"6.2.2.4. If, however, vertical adjustment cannot be performed repeatedly to the required position within the tolerances described in paragraph 6.2.2.3. above, the instrumental method of Annex 9, paragraphs 2. and 3. shall be applied to test compliance with the required minimum quality of the "cut-off" and to perform the vertical and horizontal adjustment of the beam."

2. However, in the case of UN Regulation No. 19, the cut-off quality necessitates evaluation even if the cut-off is sufficiently clear and vertical adjustment can be performed repeatedly to the required position. This proposal intends to remove this anomaly by adopting the established approach in UN Regulations Nos. 98 and 112.