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**Economic Commission for Europe**

Inland Transport Committee

**World Forum for Harmonization of Vehicle Regulations**

**Working Party on General Safety Provisions**

**112th session**

Geneva, 24-28 April 2017

Item 5 of the provisional agenda

**Regulation No. 46 (Devices for indirect vision)**

Proposal for Supplement 5 to the 04 series of amendments to Regulation No. 46 (Devices for indirect vision)

Submitted by the expert from Germany[[1]](#footnote-2)\*

The text reproduced below was prepared by the expert from Germany to clarify the magnification factors of Camera-Monitor Systems (CMS). It is based on informal document GRSG-111-27 distributed during the 111th session of the Working Party on General Safety Provisions (GRSG) (see report ECE/TRANS/WP.29/GRSG/90, para. 21). The modifications to the current text of UN Regulation No. 46 are marked in bold characters for new and strikethrough for deleted characters.

**I. Proposal**

*Paragraph 16.1.3.1.,* amend to read:

"16.1.3.1. Magnification factor

The minimum and the average magnification factors of the CMS, in both horizontal and vertical directions shall not be lower than the **~~minimum average~~** magnification factor**s** indicated below.

The minimum magnification factor shall not be less than:

(a) for Class I: 0.31;

(b) for Class II (driver's side): 0.26;

(c) for Class III (driver's side): 0.29;

(d) for Class IV (driver's side): 0.054;

(e) for Class II (passenger's side): 0.13;

(f) for Class III (passenger's side): 0.19;

(g) for Class IV (passenger's side): 0.016.

The average magnification factor shall not be less than:

(h) for Class I: 0.33;

(i) for Class II (driver's side): 0.31;

(j) for Class III (driver's side): 0.31;

(k) for Class IV (driver's side): 0.091;

(l) for Class II (passenger's side): 0.16;

(m) for Class III (passenger's side): 0.20;

(n) for Class IV (passenger's side): 0.046."

II. Justification

The wording "minimum average" is wrong and, furthermore, superfluous in the sentence.

There is no "minimum average magnification factor" in UN Regulation No. 46, only a "minimum magnification factor" and an "average magnification factor". Both factors are specified in the subsequent text of paragraph 16.1.3.1.

1. \* In accordance with the programme of work of the Inland Transport Committee for 2016–2017 (ECE/TRANS/254, para. 159 and ECE/TRANS/2016/28/Add.1, cluster 3.1), 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. [↑](#footnote-ref-2)