

**Economic and Social Council**Distr.: General
18 December 2019

Original: English

Economic Commission for Europe**Inland Transport Committee****World Forum for Harmonization of Vehicle Regulations****180th session**

Geneva, 10–12 March 2020

Item 4.8.5 of the provisional agenda

1958 Agreement:**Consideration of draft amendments to existing****UN Regulations submitted by GRSG****Proposal for Supplement 7 to the 04 series of amendments to
UN Regulation No. 46 (Devices for indirect vision)****Submitted by the experts from the Working Party on General Safety***

The text reproduced below was adopted by the Working Party on General Safety (GRSG) at its 117th session (ECE/TRANS/WP.29/GRSG/96, para. 30). It is based on ECE/TRANS/WP.29/GRSG/2019/27 as amended by GRSG-117-40-Rev.3. 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 2020 sessions.

* In accordance with the programme of work of the Inland Transport Committee for 2020 as outlined in proposed programme budget for 2020 (A/74/6 (part V sect. 20) para 20.37), 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..

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Supplement 7 to the 04 series of amendments to UN Regulation No. 46 (Devices for indirect vision)

Paragraph 13.5., amend to read:

- "13.5. The CMS shall be provided by the applicant with the following documents:
- (a) Technical specification of the CMS;
 - (b) Operator's manual;
 - (c) Documentation referred to in Annex 12, paragraph 2.3.;
 - (d) Documentation referred to in paragraph 16.1.1.1.1., if applicable."

Paragraph 15.2.1.1.2., amend to read:

- "15.2.1.1.2. In the case a camera-monitor system is used for rendering (the) field(s) of vision, the relevant field(s) of vision shall be permanently visible to the driver when the ignition is on or the vehicle master control switch is activated (whichever is applicable) and not used for other information. However, when the vehicle is moving forward at a speed above 10 km/h or backwards, the monitor or the part of the monitor intended for rendering the Class VI field of vision may be used for other information. Multiple images may be used or displayed provided that the monitor has been approved in this mode."

After paragraph 16.1.1.1., insert a new paragraph 16.1.1.1.1., to read:

- "16.1.1.1.1. Temporarily modified view

To enable an improved view in special manoeuvres (e.g. where in the case of conventional mirrors the field of view is usually changed by the driver moving their head to achieve incident angle to the mirror), it shall be permitted to change temporarily the field of view, so that the requirements laid down in paragraphs 15.2.4. (field of vision) and 16.1.3. (magnification and resolution) may not be fulfilled during this temporarily modified view.

The operation of this function shall be intuitive to the driver and not cause additional safety risks such as additional blind spots. In the case of articulated vehicles, this includes an adaptation of the modified view to cover the full length of the vehicle combination. The operation of the function shall cease, when the maneuver has been completed and the CMS shall return to the default view.

It shall be indicated to the driver, that a temporarily modified view is displayed. At any time, the driver shall be able to deactivate the function. The operator's manual shall inform the driver accordingly."

The vehicle manufacturer shall demonstrate the improvement of the view by an analysis to the satisfaction of the Technical Service and the Type Approval Authority."

In Annex 2, after item 12.1.2.2.8. insert a new item 12.1.2.2.9., to read:

- "12.1.2.2.9. Documentation referred to in paragraph 16.1.1.1.1., if applicable:
....."