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Economic Commission for Europe**Inland Transport Committee****World Forum for Harmonization of Vehicle Regulations****Working Party on General Safety Provisions****108th session**

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Item 5 of the provisional agenda

Regulation No. 46 (Devices for indirect vision)**Proposal for the 02 series of amendments to Regulation No. 125
(Forward field of vision of drivers)****Submitted by the expert from Germany ***

The text reproduced below was prepared by the expert from Germany to introduce requirements for the indirect view in the case vehicles are equipped with camera-monitor systems. This proposal complements ECE/TRANS/WP.29/GRSG/2015/2 proposed by the Informal Group on Camera-Monitor Systems II (IGCMS II) to amend Regulation No. 46 introducing new provisions for camera-monitor systems. This proposal shall be considered and submitted to World Forum for Harmonization of Vehicle Regulations (WP.29) in parallel with the proposed amendments to Regulation No. 46. The modifications to the current text of Regulation No. 125 are marked in bold characters.

* In accordance with the programme of work of the Inland Transport Committee for 2012–2016 (ECE/TRANS/224, para. 94 and ECE/TRANS/2012/12, 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 5.1.3., amend to read:

"5.1.3. Except as provided in paragraph 5.1.3.1. or 5.1.3.2., other than the obstructions created by the A pillars, the fixed or movable vent or side window division bars, outside radio aerials, **devices for indirect vision** and windscreen wipers, there should be no obstruction in the driver's 180° forward direct field of vision below a horizontal plane passing through V1, and above three planes through V2, one being perpendicular to the plane X-Z and declining forward 4° below the horizontal, and the other two being perpendicular to the plane Y-Z and declining 4° below the horizontal (see Annex 4, Appendix, Figure 4).

..."

Insert new paragraphs 5.1.3.1. and 5.1.3.2., to read:

5.1.3.1. In case of camera-monitor devices, the exemptions of paragraph 5.1.3. apply to cameras including their holders and housings which are mounted to the vehicle exterior.

The camera-monitor system replacing a rear-view Class I mirror shall have the same exemption.

5.1.3.2. For vehicles which are standard equipped and type-approved with rear-view mirrors that are optionally replaced by camera-monitor devices, the exemptions of paragraph 5.1.3. apply also to monitors as long as their obstruction of the direct view does not exceed the level of obstruction of the corresponding exterior rear-view mirror including its housing and holder."

Paragraphs 5.1.3.1. to 5.1.3.2.2. (former), renumber as paragraphs 5.1.3.3. to 5.1.3.4.2.

Add a new paragraph 12.6., to read:

"12.6. As from 01 September [2021], Contracting Parties applying this Regulation shall not be obliged to accept approvals of a type of vehicle which has been type approved according to the provisions of paragraph 5.1.3.2. Contracting Parties applying this Regulation shall continue to grant extensions and to accept extensions of type approvals for vehicles type-approved according to the provisions of paragraph 5.1.3.2. even after the date mentioned herein."

II. Justification

1. Applying the same provisions as for mirrors, the exemptions for obstructions due to camera-monitor devices shall be added to Regulation No. 125 as cameras and their holders and housings are mounted to the vehicle exterior.

2. To promote and to support the installation of camera-monitor devices on vehicles of category M₁, the possibility of obstructions due to monitors should be allowed for a transitional period of five years after the entry into force of the provisions for camera-monitor devices specified in Regulation No. 46.

3. According to the proposed amendments, this is only valid for vehicles that are type approved with conventional mirrors and on which these mirrors are replaced by camera-monitor devices. The allowed level of obstruction shall not exceed the level of obstruction of the corresponding mirror that is replaced by a camera-monitor device.
