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## Economic Commission for Europe

### Inland Transport Committee

### World Forum for Harmonization of Vehicle Regulations

#### 191st session

Geneva, 14–16 November 2023

Item 4.6.6 of the provisional agenda

#### 1958 Agreement:

Consideration of draft amendments to existing

UN Regulations submitted by GRE

## **Proposal for Supplement 4 to the 08 series of amendments to UN Regulation No. 48 (Installation of lighting and light-signalling devices)**

### **Submitted by the Working Party on Lighting and Light-Signalling\***

The text reproduced below was adopted by the Working Party on Lighting and Light-Signalling (GRE) at its eighty-eighth session (ECE/TRANS/WP.29/GRE/88, paras. 18 and 25). It is based on informal documents GRE-88-17 and GRE-88-25-Rev.1. 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 November 2023 sessions.

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\* In accordance with the programme of work of the Inland Transport Committee for 2023 as outlined in proposed programme budget for 2023 (A/77/6 (Sect. 20), table 20.6), 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.



*Paragraph 3.2.6.5.*, amend to read:

“3.2.6.5. The documents according to paragraph 6.22.9.3. of this Regulation;”

*Paragraph 5.10.4.3.*, amend to read:

“5.10.4.3. In case of doubt, the requirement above shall be deemed fulfilled if the luminous intensity of the red light emitted to the front and/or the white light emitted to the rear, as verified during type approval of the lamps, is not more than 0.25 cd per lamp taking into account the influence of the vehicle body if applicable.”

*Add a new paragraph 5.35.3.*, to read:

“5.35.3. Neither flashing nor transforming of Driver Assistance Projection is permitted, unless expressly allowed for the use cases described under the conditions in Annex 16.”

*Paragraphs 5.35.3. (former) to 5.35.5.*, renumber as 5.35.4. to 5.35.6., respectively.

*Paragraph 5.35.6. (former)*, renumber as 5.35.7. and amend to read:

“5.35.7. The Driver Assistance Projection shall be deactivated automatically in case of an electrically detectable failure of the system that affects the visual information on the road given by the Driver Assistance Projection.”

*Add new paragraphs 5.35.8. to 5.35.11.*, to read:

“5.35.8. The Driver Assistance Projection shall not interfere with information displayed by the Field of Vision Assistant as defined in UN Regulation No. 125.

5.35.9. The Driver Assistance Projection shall not be switched ON when the windshield wiper is switched ON and its continuous operation has occurred for a period of at least two minutes.

5.35.10. Except for the wrong way warning and risk of collision warning, Driver Assistance Projection shall not be switched ON when the vehicle speed is below 65 km/h. However, when the projection is already switched ON, it may remain switched ON as long as the vehicle speed remains above 40 km/h.

5.35.11. The lateral distance from the outer edges of the Driver Assistance Projection with respect to the longitudinal median plane or to the trajectory of the centre of gravity of the vehicle shall not be more than 1,250 mm.

This shall be demonstrated by the manufacturer by calculation or by other means accepted by the Type Approval Authority.”

*Paragraph 6.22.7.1.2., first indent*, for 6.22.9.3. read 6.22.9.4.

*Add a new paragraph 6.22.9.2.* to read:

“6.22.9.2. Lighting units for AFS passing beam and/or adaptive main beam may produce Driver Assistance Projection in order to warn the driver appropriately regarding special traffic situations or conditions.”

*Paragraph 6.22.9.2. (former)*, renumber to 6.22.9.3.

*Paragraph 6.22.9.2.1.*, renumber to 6.22.9.3.1. and add a new point (c) at the end to read:

“6.22.9.3.1. The applicant ...

(a) ...

...

(c) Compliance of Driver Assistance Projection, if any, with the requirements according to paragraph 5.35. and its sub-paragraphs.”

*Paragraph 6.22.9.2.2.*, renumber to 6.22.9.3.2. and amend to read:

“6.22.9.3.2. To verify ... (e.g. excessive angular movement or flicker).

In addition, if Driver Assistance Projection is present, the technical service shall verify during the test drive that this feature does not cause any distraction.”

*Paragraph 6.22.9.2.3.*, renumber to 6.22.9.3.3. and amend the first sentence to read:

“6.22.9.3.3. The overall performance of the automatic control, including Driver Assistance Projection if installed, shall be demonstrated ... ”

*Paragraph 6.22.9.2.4.*, renumber to 6.22.9.3.4.

*Paragraph 6.22.9.3. (former)*, renumber as 6.22.9.4.

*Paragraph 6.22.9.3.1.(former) and its subparagraphs*, renumber as 6.22.9.4.1. and its subparagraphs accordingly.

*Paragraph 6.22.9.3.2. (former) and its sub-paragraphs*, delete.

*Paragraphs 6.22.9.4. (former) and 6.22.9.5. (former)*, renumber as 6.22.9.5. and 6.22.9.6. accordingly.

*Annex 1, item 9.22.*, amend to read:

“9.22.	Adaptive front lighting system (AFS):	yes/no <sup>2</sup>
9.22.1.	AFS passing-beam	yes/no <sup>2</sup>
9.22.1.1.	AFS passing-beam + Driver Assistance Projection	yes/no <sup>2</sup>
9.22.2.	AFS main-beam	yes/no <sup>2</sup>
9.22.3.	AFS adaptive main-beam (ADB)	yes/no <sup>2</sup>
9.22.3.1.	AFS adaptive main-beam (ADB) + Driver Assistance Projection	yes/no <sup>2</sup> ”