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## Economic Commission for Europe

### Inland Transport Committee

### World Forum for Harmonization of Vehicle Regulations

#### 191st session

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Item 4.6.3 of the provisional agenda

#### 1958 Agreement:

Consideration of draft amendments to existing

UN Regulations submitted by GRE

## **Proposal for the 03 series of amendments to UN Regulation No. 86 "Installation of lighting and light-signalling devices for agricultural vehicles"**

### **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, para. 10). It is based on ECE/TRANS/WP.29/GRE/2023/6. 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 6.1.*, amend to read:

“6.1. Main-beam headlamps (UN Regulations No. 149)”

*Paragraph 6.1.2.*, amend to read:

“6.1.2. Number: Two, type-approved according to Classes A, B, BS, CS or DS of the 01 or subsequent series of amendments to UN Regulation No. 149.

Optionally, one additional pair type-approved according to Classes A, B, BS, CS, D, DS, ES or RA of the 00 or subsequent series of amendments to UN Regulation No. 149.”

*Paragraph 6.1.7.*, amend to read:

“6.1.7. Electrical connections: The main-beam headlamp may be switched ON either simultaneously or in pairs. For changing over from the dipped to the main-beam at least one pair of main-beams shall be switched ON. For changing over from the main to the dipped-beam all main-beam headlamps shall be switched OFF simultaneously.

The dipped-beams may remain switched ON at the same time as the main-beams.

However, when the vehicle is fitted with secondary main-beam(s) type-approved in accordance with the 01 or subsequent series of amendments to UN Regulation No. 149, at least one of the following lamps shall remain switched ON with the secondary main-beam(s):

- (a) Dipped-beam(s);
- (b) Main-beam of Class A or B approved according to the 01 and subsequent series of amendments to UN Regulation No. 149.”

*Paragraph 6.2.*, amend to read:

“6.2. Dipped-beam headlamps (UN Regulations No. 149)”

*Paragraph 6.2.2.*, amend to read:

“6.2.2. Number: Two (or four - see paragraph 6.2.4.2.4.), type-approved according to Classes AS, BS, C, CS, DS or V of the 01 or subsequent series of amendments to UN Regulation No. 149.”

*Paragraph 6.3.2.*, amend to read:

“6.3.2. Number: Two; Class “F3” and type-approved according to the 03 or subsequent series of amendments to UN Regulation No. 19, or to the 00 or subsequent series of amendments to UN Regulation No. 149.”

*Paragraph 6.4.2.*, amend to read:

“6.4.2. Number: One or two, type-approved according to the 00 or subsequent series of amendments to UN Regulation No. 23, or to the 00 or subsequent

series of amendments to UN Regulation No. 148.”

*Paragraph 6.5.2.*, amend to read:

“6.5.2. Number: The number of devices shall be such that they can emit signals which correspond to one of the arrangements referred to in paragraph 6.5.3.

The devices shall be type-approved according to the 01 or subsequent series of amendments to UN Regulation No. 6, or to the 00 or subsequent series of amendments to UN Regulation No. 148.”

*Paragraph 6.7.2.*, amend to read:

“6.7.2. Number: Two S1 or S2 category devices and one S3 or S4 category device.

The devices shall be type-approved according to the 02 or subsequent series of amendments to UN Regulation No. 7, or to the 00 or subsequent series of amendments to UN Regulation No. 148.”

*Paragraph 6.8.2.*, amend to read:

“6.8.2. Number: Two or four (see paragraph 6.8.4.2.), type-approved according to the 02 or subsequent series of amendments to UN Regulation No. 7, or to the 00 or subsequent series of amendments to UN Regulation No. 148.”

*Paragraph 6.9.2.*, amend to read:

“6.9.2. Number: Two or more (see paragraphs 6.9.4.3. and 6.9.5.1.), type-approved according to the 02 or subsequent series of amendments to UN Regulation No. 7, or to the 00 or subsequent series of amendments to UN Regulation No. 148.”

*Paragraph 6.10.2.*, amend to read:

“6.10.2. Number: One or two, type-approved according to the 00 or subsequent series of amendments to UN Regulation No. 38, or to the 00 or subsequent series of amendments to UN Regulation No. 148.”

*Paragraph 6.11.2.*, amend to read:

“6.11.2. Number: Dependent upon the arrangement.

The devices shall be type-approved according to the 00 or subsequent series of amendments to UN Regulation No. 77, or to the 02 or subsequent series of amendments to UN Regulation No. 7, or to the 00 or subsequent series of amendments to UN Regulation No. 148.”

*Paragraph 6.12.2., amend to read:*

“6.12.2. Number: Two visible from the front and two visible from the rear.

Optional: additional lamps may be fitted as follows:

(a) Two visible from the front;

(b) Two visible from the rear.

The devices shall be type-approved according to the 02 or subsequent series of amendments to UN Regulation No. 7, or to the 00 or subsequent series of amendments to UN Regulation No. 148.”

*Paragraph 6.14.2., amend to read:*

“6.14.2. Number: Two or four (see paragraph 6.14.5.1.), type-approved according to the requirements concerning Class IA or IB retro-reflectors in the 02 or subsequent series of amendments to UN Regulation No. 3, or in the 00 or subsequent series of amendments to UN Regulation No. 150.

Additional retro-reflecting devices and materials (including two retro-reflectors not complying with paragraph 6.14.4. below), are permitted provided they do not impair the effectiveness of the mandatory lighting and light-signalling devices.”

*Paragraph 6.15.2., amend to read:*

“6.15.2. Number: Such that the requirements for longitudinal positioning are complied with. These devices shall be type-approved according to the requirements concerning Class IA or IB retro-reflectors in the 02 or subsequent series of amendments to UN Regulation No. 3, or in the 00 or subsequent series of amendments to UN Regulation No. 150.

Additional retro-reflecting devices and materials (including two retro-reflectors not complying with paragraph 6.15.4. below), are permitted provided they do not impair the effectiveness of the mandatory lighting and light-signalling devices.”

*Paragraphs 6.16.2. to 6.16.6, amend to read:*

<p>“6.16.2. Number</p> <p>6.16.3. Arrangement</p> <p>6.16.4. Position</p> <p>6.16.4.1. Width</p> <p>6.16.4.2. Height</p> <p>6.16.4.3. Length</p> <p>6.16.5. Geometric visibility</p>	}	<p>Such that the device is able to illuminate the site of the registration plate.</p> <p>The devices shall be type-approved according to the 00 or subsequent series of amendments to UN Regulation No. 4, or to the 00 or subsequent series of amendments to UN Regulation No. 148.”</p>
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## 6.16.6. Orientation

*Paragraph 6.17.2., amend to read:*

“6.17.2. Number: Two or four, type-approved according to the requirements concerning Class IA or IB retro-reflectors in the 02 or subsequent series of amendments to UN Regulation No. 3, or in the 00 or subsequent series of amendments to UN Regulation No. 150.”

*Paragraph 6.18.2., amend to read:*

“6.18.2. Minimum number per side: Such that the rules for longitudinal positioning are complied with.

The devices shall be type-approved according to the 00 or subsequent series of amendments to UN Regulation No. 91, or to the 00 or subsequent series of amendments to UN Regulation No. 148.”

*Paragraph 6.19.2., amend to read:*

“6.19.2. Number: Two or four (see paragraph 6.19.4.2.), type-approved according to the 00 or subsequent series of amendments to UN Regulation No. 87, or to the 00 or subsequent series of amendments to UN Regulation No. 148.”

*Paragraph 6.20.2., amend to read:*

“6.20.2. Number: Two or four, type-approved according to the 01 or subsequent series of amendments to UN Regulation No. 119, or to the 00 or subsequent series of amendments to UN Regulation No. 149.”

*Paragraph 6.21.2., amend to read:*

“6.21.2. Number: According to the presence

The devices shall be type-approved according to the 00 or subsequent series of amendments to UN Regulation No. 104, or to the 00 or subsequent series of amendments to UN Regulation No. 150.”

*Paragraph 6.22.2., amend to read:*

“6.22.2. Number: According to:

- Annex 15 of the 01 series of amendments to UN Regulation No. 69; or
- Annex 25 of the 00 series of amendments to UN Regulation No. 150; or
- Annex 11 of the 01 or subsequent series of amendments to UN Regulation No. 150.”

*Paragraph 6.22.3., amend to read:*

“6.22.3. Arrangement: According to:



*Paragraph 6.25.2., amend to read:*

- “6.25.2. Number: Two or four (see paragraph 6.25.5.1.), type-approved according to the requirements concerning Class IIIA or IIIB retro-reflectors in the 02 or subsequent series of amendments to UN Regulation No. 3, or in the 00 or subsequent series of amendments to UN Regulation No. 150.”

*Insert a new paragraph 12.3. to read:*

- “12.3. Transitional provisions applicable to the 03 series of amendments.
- 12.3.1. As from the official date of entry into force of the 03 series of amendments, no Contracting Party applying this Regulation shall refuse to grant or refuse to accept type approvals under this Regulation as amended by the 03 series of amendments.
- 12.3.2. As from 1 September 2028, Contracting Parties applying this Regulation shall not be obliged to accept type approvals to the preceding series of amendments, first issued after 1 September 2028.
- 12.3.3. Until 1 September 2030, Contracting Parties applying this Regulation shall accept type approvals to the preceding series of amendments, first issued before 1 September 2028.
- 12.3.4. As from 1 September 2030, Contracting Parties applying this Regulation shall not be obliged to accept type approvals, and extensions thereof, issued to the preceding series of amendments to this Regulation.
- 12.3.5. Notwithstanding the transitional provisions above, Contracting Parties who start to apply this Regulation after the date of entry into force of the most recent series of amendments are not obliged to accept type approvals which were granted in accordance with any of the preceding series of amendments to this Regulation.
- 12.3.6. Notwithstanding paragraph 12.3.4., Contracting Parties applying this Regulation shall continue to accept type approvals to the preceding series of amendments to this Regulation, for the vehicle types which are not affected by the changes introduced by the 03 series of amendments.
- 12.3.7. Contracting Parties applying this Regulation may grant type approvals according to any preceding series of amendments to this Regulation.
- 12.3.8. Contracting Parties applying this Regulation shall continue to grant extensions of existing approvals to any preceding series of amendments to this Regulation.”

*Annex 6, paragraph 2., amend to read:*

- “2. Colours and photometric minimum requirements
- Each panel or foil shall be type approved according to the specifications of:
- Class 5 in the 01 or subsequent series of amendments to UN Regulation No. 70, or
  - Class F in the 00 or subsequent series of amendments to UN Regulation No. 104, or
  - Class 5 or Class F in the 00 or subsequent series of amendments to UN Regulation No. 150.”