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**Economic Commission for Europe****Inland Transport Committee****World Forum for Harmonization of Vehicle Regulations****176th session**

Geneva, 13-16 November 2018

Item 4.6.28 of the provisional agenda

**1958 Agreement:****Consideration of draft amendments to existing****UN Regulations submitted by GRE****Proposal for Supplement 1 to the 01 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 seventy-ninth session (ECE/TRANS/WP.29/GRE/79, para. 9). It is based on ECE/TRANS/WP.29/GRE/2018/9 and Annex III to the report. The text refers to the three new simplified UN Regulations on Light-Signalling Devices (LSD), Road Illumination Devices (RID) and Retro-Reflecting Devices (RRD) (ECE/TRANS/WP.29/2018/157, ECE/TRANS/WP.29/2018/158 and ECE/TRANS/WP.29/2018/159, respectively). 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 2018 sessions.

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\* In accordance with the programme of work of the Inland Transport Committee for 2018–2019 (ECE/TRANS/274, para. 123 and ECE/TRANS/2018/21/Add.1, cluster 3.1), 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

## **Supplement 1 to the 01 series of amendments to UN Regulation No. 86 (Installation of lighting and light-signalling devices for agricultural vehicles)**

*Paragraph 2.20.1., amend to read:*

"2.20.1. "Slow-Moving Vehicles (SMV) rear marking plate", a triangular plate with truncated corners with a characteristic pattern faced with retro-reflective and fluorescent material or devices (class 1); or with retro-reflective materials or devices only (class 2) (see UN Regulation No. 69 or [RRD])."

*Paragraph 6.1., amend to read:*

"6.1. Main-beam headlamps (UN Regulations Nos. 98, 112 and 113 or [RID])"

*Paragraph 6.2., amend to read:*

"6.2. Dipped-beam headlamps (UN Regulations Nos. 98, 112 and 113 or [RID])"

*Paragraph 6.3., amend to read:*

"6.3. Front fog lamps (UN Regulation No. 19 or [RID])"

*Paragraph 6.4., amend to read:*

"6.4. Reversing lamp(s) (UN Regulation No. 23 or [LSD])"

*Paragraph 6.5., amend to read:*

"6.5. Direction-indicator lamps (UN Regulation No. 6 or [LSD])"

*Paragraph 6.7. and 6.7.1., amend to read:*

"6.7. Stop lamps (UN Regulation No. 7 or [LSD])"

6.7.1. Presence: S1 or S2 of devices as described in UN Regulation No. 7 or [LSD]:  
Mandatory on all vehicles.

S3 or S4 of devices as described in UN Regulation No. 7 or [LSD]: Optional  
on all vehicles."

*Paragraph 6.8., amend to read:*

"6.8. Front position lamps (UN Regulation No. 7 or [LSD])"

*Paragraph 6.9., amend to read:*

"6.9. Rear position lamps (UN Regulation No. 7 or [LSD])"

*Paragraph 6.10., amend to read:*

"6.10. Rear fog-lamps (UN Regulation No. 38 or [LSD])"

*Paragraph 6.11., amend to read:*

"6.11. Parking lamps (UN Regulation No. 77, 7 or [LSD])"

*Paragraph 6.12., amend to read:*

"6.12. End-outline marker lamps (UN Regulation No. 7 or [LSD])"

*Paragraph 6.14., amend to read:*

"6.14. Rear retro-reflectors, non-triangular (UN Regulation No. 3 or [RRD])"

*Paragraph 6.14.2.*, amend to read:

"6.14.2. Number: Two or four (see paragraph 6.14.5.1.).

The performances of these devices shall conform to the requirements concerning Class IA or IB retro-reflectors in UN Regulation No. 3 or [RRD]. 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.*, amend to read:

"6.15. Side retro-reflectors, non-triangular (UN Regulation No. 3 or [RRD])"

*Paragraph 6.15.2.*, amend to read:

"6.15.2. Number:

Such that the requirements for longitudinal positioning are complied with. The performances of these devices shall conform to the requirements concerning Class IA or IB retro-reflectors in UN Regulation No. 3 or [RRD].

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."

*Paragraph 6.16.*, amend to read:

"6.16. Rear registration plate illuminating device (UN Regulation No. 4 or [LSD])"

*Paragraph 6.17.*, amend to read:

"6.17. Front retro-reflectors, non-triangular (UN Regulation No. 3 or [RRD])"

*Paragraph 6.18.*, amend to read:

"6.18. Side-marker lamps (UN Regulation No. 91 or [LSD])"

*Paragraph 6.19.*, amend to read:

"6.19. Daytime running lamp (UN Regulation No. 87 or [LSD])"

*Paragraph 6.20.*, amend to read:

"6.20. Cornering lamp (UN Regulation No. 119 or [RID])"

*Paragraph 6.21.*, amend to read:

"6.21. Conspicuity markings (UN Regulation No. 104 or [RRD])"

*Paragraph 6.22.*, amend to read:

"6.22. SMV rear marking plate (UN Regulation No. 69 or [RRD])

6.22.1. Presence: Optional on vehicles with a maximum design speed of not more than 40 km/h. Prohibited on all other vehicles.

6.22.2. Number: According to Annex 15 of UN Regulation No. 69 or Annex 25 of UN Regulation No. [RRD].

6.22.3. Arrangement: According to Annex 15 of UN Regulation No. 69 or Annex 25 of UN Regulation No. [RRD].

6.22.4. Position

Width: According to Annex 15 of UN Regulation No. 69 or Annex 25 of UN Regulation No. [RRD].

Height: No individual specifications.

Length: According to Annex 15 of UN Regulation No. 69 or Annex 25 of UN Regulation No. [RRD].

6.22.5. Geometric visibility: According to Annex 15 of UN Regulation No. 69 or Annex 25 of UN Regulation No. [RRD].

6.22.6. Orientation: According to Annex 15 of UN Regulation No. 69 or Annex 25 of UN Regulation No. [RRD]."

*Paragraph 6.24.*, amend to read:

"6.24. Manoeuvring lamps (UN Regulation No. 23 or [LSD])"

*Paragraph 6.24.9.2.*, amend to read:

"6.24.9.2. The requirement of 6.24.9.1. shall be verified by a drawing or simulation or deemed be satisfied if the installation conditions comply with paragraph 6.2.2. of UN Regulation No. 23 or paragraph 5.10.2. of UN Regulation No. [LSD], as noticed in the communication document in Annex 1, paragraph 9."

*Paragraph 6.25.*, amend to read:

"6.25. Rear retro-reflectors, triangular (UN Regulation No. 3 or [RRD])"

*Paragraph 6.26.*, amend to read:

"6.26. Signalling panel and signalling foil (UN Regulations Nos. 70 and 104 or [RRD])"

*Annex 6*

*Paragraph 2.*, amend to read:

"2. Each panel or foil shall be according to the specifications of UN Regulation No. 70, class 5 or UN Regulation No. 104, class F or UN Regulation No. [RRD], class 5 or class F."

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