

Informal document GRE-89-16
89th GRE, 24-27 October 2023,
agenda item 6 (b)



CEMA amendment to UN Reg. No.86 Lighting installation for agricultural vehicles

24-27 October 2023

CEMA amendment to UN Reg. No.86

Background



- ▶ In European Union, road requirements for agricultural vehicles (tractors, trailers and interchangeable towed equipment) are covered in (EU) Reg. 167/2013
- ▶ In parallel internal work done in CEMA. For lighting installation:
 - ▶ harmonisation of the requirements in Reg. No. 86 and the ones applicable in European Union
 - ▶ consideration of vehicles of any dimensions
 - ▶ addition of devices as for motor vehicles or dedicated to agricultural vehicles: manufacturer logo, beacon

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Background



- ▶ Document first presented in April 2023 in GRE-88-04
- ▶ Adaptation of the amendment to take into account the comments expressed on:
 - ▶ Special warning lamps
 - ▶ Use of conspicuity markings instead of side marker lamps
- ▶ Logo requirements; there are apparently diverging interpretations on the requirements for motor vehicles
→ need for more maturity before it is introduced in agricultural vehicles

→ Formal document ECE-TRANS-WP29-GRE-2023-12

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Main proposals – Position lamps



- ▶ Adaptation of the requirements to take into account the dimensions out of the ones harmonised in Europe:
 - ▶ Review of the maximum number of lamps
 - ▶ Review of the requirements for additional pair(s)
- ▶ Alignment of the requirements as far as possible between front and rear position lamps

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Main proposals – Retro-reflectors



- ▶ Use of reflective materials as an alternative to retro-reflectors, in order to have more flexibility for surfaces which are not flat
- ▶ Adaptation of the requirements to take into account the dimensions out of the ones harmonised in Europe:
 - ▶ Review of the maximum number of reflectors
 - ▶ Possibility to use signalling panels as an alternative to reflectors
- ▶ Alignment of the requirements as far as possible between front, rear and lateral retro-reflectors

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Main proposals – Other items



- ▶ Clarification of requirements for the detection in the tractor of a failing LED direction-indicator lamp on a trailer (difficulty for the detection linked to the fact that the tractor must take into account any technology of lamp)
- ▶ Clarification in the editing on the criteria for the geometric visibility for dipped-beam lamps



Thank you!

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