



Economic and Social Council

Distr.: General
7 August 2013

Original: English

Economic Commission for Europe

Inland Transport Committee

World Forum for Harmonization of Vehicle Regulations

Working Party on Lighting and Light-Signalling

Seventieth session

Geneva, 21-23 October 2013

Item 14(d) of the provisional agenda

Other business – Other business

Proposal for Supplement 16 to the 02 Series of Regulation No. 3

Submitted by the expert from the International Automotive Lighting and Light Signalling Expert Group (GTB)*

The text reproduced below was prepared by the expert from the GTB to delete the shape requirements of retro-reflecting devices. The modifications to the existing text of the Regulation are marked in bold for new or strikethrough for deleted characters.

* In accordance with the programme of work of the Inland Transport Committee for 2010–2014 (ECE/TRANS/208, para. 106, ECE/TRANS/2010/8, 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

Annex 5, Paragraph 1., amend to read:

- "1. Shape and dimensions of retro-reflecting devices in class IA or IB
- 1.1. The shape of the illuminating surfaces ~~must shall be simple, and~~ not be easily confused **with a triangle** at normal observation distances, ~~with a letter, a digit or a triangle.~~
- ~~1.2. The preceding paragraph notwithstanding, a shape resembling the letters or digits of simple form O, I, U or 8 is permissible."~~

Annex 5, Paragraph 3.1., amend to read:

- "3.1. The shape of the light emitting surfaces ~~must shall not be simple and not~~ easily confused **with a triangle** at normal observation distances ~~with a letter, a digit or a triangle. However, a shape resembling the letters and digits of simple form, O, I, U and 8 is permissible."~~

II. Justification

1. The GTB Photometry Working Group has considered the possible need to introduce amendments to the light-signalling regulations to address concerns about the increasingly complex shapes of the apparent surface of modern devices. The conclusion, taking a pragmatic view of the resolution of the eye, is that it is not necessary to introduce shape restrictions on the grounds of traffic safety. It was further concluded that this logic should also be extended to retro-reflector devices with the exception of triangles.
2. In this proposal the shape limitation, for retro-reflectors of categories IA, IB and IVA, is maintained for triangles while any other limitation is deleted.
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