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### ECONOMIC COMMISSION FOR EUROPE

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#### World Forum for Harmonization of Vehicle Regulations (WP.29)

(One-hundred-and-thirtieth session,  
24-27 June 2003, agenda item 4.2.12.)

#### PROPOSAL FOR DRAFT SUPPLEMENT 7 TO THE 02 SERIES OF AMENDMENTS TO REGULATION No. 48

(Installation of lighting and light-signalling devices)

#### Transmitted by the Working Party on Lighting and Light-Signalling (GRE)

Note: The text reproduced below was adopted by GRE at its forty-ninth session and is transmitted for consideration to WP.29 and AC.1. It is based on documents TRANS/WP.29/2001/8, TRANS/WP.29/GRE/2002/25, both as amended, and annex 2 to the session report (TRANS/WP.29/GRE/49, paras. 12, 14, 15, 19, 20 and annex 2).

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Paragraph 2.7.16.3., amend to read:

"2.7.16.3. other retro-reflective markings which must be used to comply with national requirements for use as regards certain categories of vehicles or certain methods of operation."

Insert a new paragraph 2.7.17., to read:

"2.7.17. "Retro-reflective marking" means an additional marking of characteristic shape and/or pattern intended to increase the visibility and easy identification of certain categories of vehicles and their trailers."

Paragraphs 2.7.17. (former) to 2.7.25., renumber as paragraphs 2.7.18. to 2.7.26.

Insert a new paragraph 2.7.27., to read:

"2.7.27. "objective luminous flux" means a design value of the luminous flux of a replaceable light source. It shall be achieved, within the specified tolerances, when the replaceable light source is energized by the power supply at the specified test voltage, as indicated in the data sheet of the light source."

Paragraph 2.9.1., amend the reference to "(paragraphs 2.7.9., 2.7.10., 2.7.18. and 2.7.20.)", to read "(paragraphs 2.7.9., 2.7.10., 2.7.19. and 2.7.21.)".

Paragraph 2.9.2., amend the reference to "(paragraphs 2.7.11. to 2.7.15., 2.7.17., 2.7.19. and 2.7.21. to 2.7.24.)" to read "(paragraphs 2.7.11. to 2.7.15., 2.7.18., 2.7.20. and 2.7.22. to 2.7.25.)".

Paragraph 5.2., amend the reference to "paragraphs 2.7.9., 2.7.10. and 2.7.18." to read "paragraphs 2.7.9., 2.7.10. and 2.7.19."

Insert a new paragraph 5.7.1., to read:

"5.7.1. Where a "single lamp" is composed of two or more distinct parts, it shall satisfy the following requirements:

5.7.1.1. the total area of the projection of the distinct parts (composing the apparent surface in the direction of the reference axis) on a plane tangent to the exterior surface of the transparent material and perpendicular to the reference axis shall occupy not less than 60 per cent of the smallest quadrilateral circumscribing the said projection or,

the maximum distance between two adjacent/tangential distinct parts (composing the apparent surface in the direction of the reference axis) shall not be more than 15 mm measured perpendicularly to the reference axis.

5.7.1.2. No distinct part of a single lamp shall be separated from another distinct part of that lamp by any part of the apparent surface of another lamp of a different colour."

Paragraph 5.15., amend to read (inserting a new entry at the end):

- "5.15. ....  
retro-reflective lines and contour markings: white or yellow to the side;  
red to the rear. \*\*/

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\*\*/ Nothing in this Regulation shall preclude the Contracting Parties applying this Regulation from allowing the use of yellow line or contour markings to the rear in their territories."

Paragraph 5.22., amend to read:

- "5.22. With the exception of retro-reflectors, a lamp even bearing an approval mark is deemed not to be present when it cannot be made to operate by the sole installation of a light source."

Insert a new paragraph 5.23., to read:

- "5.23. Lamps shall be fitted in a vehicle in such a way that the light source can be correctly replaced according to the instructions of the vehicle manufacturer without the use of special tools, other than those provided with the vehicle by the manufacturer. This requirement is not applicable to devices approved with a non-replaceable light source."

Paragraph 5.23. (former), renumber as paragraph 5.24.

Paragraph 6.1.2., amend to read:

- "6.1.2. Number  
  
Two or four  
  
For vehicles of the category N<sub>3</sub>:  
Two extra main-beam headlamps may be installed.  
  
Where a vehicle is fitted with ...."

Paragraph 6.1.7.1., amend to read:

- "6.1.7.1. The main-beam headlamps may be switched on either simultaneously or in pairs. In case the extra two main-beam headlamps are installed, as permitted under paragraph 6.1.2. for vehicles of the category N<sub>3</sub> only, no more than two pairs may be simultaneously lit. For changing over from the dipped to the main beam ...."

Paragraph 6.2.9., amend the last subparagraph to read (footnote 4/ not modified):

".....

Dipped-beam headlamps with a light source having an objective luminous flux which exceeds 2,000 lumen shall only be installed in conjunction with the installation of headlamp cleaning device(s) according to Regulation No. 45 4/. In addition, with respect to vertical inclination, the provisions of paragraph 6.2.6.2.2. above shall not be applied."

Insert new paragraphs 6.21. to 6.21.3.2., to read:

"6.21.       SIDE AND REAR RETRO-REFLECTIVE STRIP AND CONTOUR MARKINGS  
(Regulation No. 104)

6.21.1.     Presence

Optional.

6.21.2.     Arrangement

6.21.2.1.   Retro-reflective marking materials installed on vehicles may be made up of an element or of several elements and must be mounted as close as possible to horizontally or vertically, compatible to the design and operation requirements of the vehicle.

6.21.2.2.   The lower edge of the retro-reflective marking shall have a minimum height above the ground of at least 250 mm.

6.21.3.     Position

6.21.3.1.   The mounting of the markings should identify as close as possible the entire length and width (strips) or shape (contour markings) of the vehicle. "Entire" means at least 80 per cent of the length and/or width of a marked vehicle.

6.21.3.2.   In case of non-continuous strips the distance between single elements should be as small as possible and should not exceed 50 per cent of the shortest element length."

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