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**ECONOMIC COMMISSION FOR EUROPE**

**INLAND TRANSPORT COMMITTEE**

World Forum for Harmonization of Vehicle Regulations

Working Party on Lighting and Light-Signalling

Sixty-first session

Geneva, 30 March - 3 April 2009

Item 5(d) of the provisional agenda

**COLLECTIVE AMENDMENTS**

Regulations Nos. 6 and 7

Proposal for draft Supplements to Regulations No. 6 and 7

Submitted by the expert from the Working Party "Brussels 1952" \*/

The text reproduced below was prepared by the expert from the Working Party "Brussels 1952" (GTB) in order to simplify the photometric requirements in the Regulations No. 6 and No. 7 and to update the categories of direction indicators in line with those permitted in Regulation No. 48. The modifications to the current text of Regulations Nos. 6 and 7 are marked in bold or strikethrough characters.

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\*/ In accordance with the programme of work of the Inland Transport Committee for 2006-2010 (ECE/TRANS/166/Add.1, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance performance of vehicles. The present document is submitted in conformity with that mandate.

## A. PROPOSAL

- A.1. PROPOSAL TO AMEND REGULATION No. 6 - (Direction indicators) (The following text is based upon the current text of the Regulation including draft Corrigendum 1 to Supplement 16 to the 01 series of amendments and draft Supplement 16 to the 01 series of amendments to the Regulation).

Paragraph 2.1., amend to read:

- "2.1. The application for approval of a type of direction indicator shall be submitted by the holder of the trade name or mark or by his duly accredited representative. It shall specify to which category or to which of the categories 1, 1a, 1b, 2a, 2b, ~~3, 4~~, 5 or 6 according to Annex 1, the direction indicator belongs and, if it belongs to category 2, whether it has steady luminous intensity (category 2a) or whether it has variable luminous intensity (category 2b) and if the direction indicator may also be used in an assembly of two lamps of the same category. At the choice of the applicant, it will also specify that the device may be installed on the vehicle with different inclinations of the reference axis in respect to the vehicle reference planes and to the ground or rotate around its reference axis; these different conditions of installation shall be indicated in the communication form."

Paragraph 4.2.2.1., amend to read:

- "4.2.2.1. One or more of the numbers: 1, 1a, 1b, 2a, 2b, ~~3, 4~~, 5 or 6, according to whether the device belongs to one or more categories 1, 1a, 1b, 2a, 2b, ~~3, 4~~, 5 or 6 for which approval is sought in accordance with paragraph 2.1.;"

Paragraph 6.1., amend to read:

- "6.1. The light emitted by each of the two devices supplied must be in the case of direction indicators of categories 1, 1a, 1b, 2a, 2b, ~~3 or 4~~ in the reference axes, in the case of direction indicators of categories 5 or 6 in direction A according to Annex 1 of not less than the minimum intensity and of not more than the maximum intensity specified below:

Direction indicator of category	Minimum luminous intensity in cd	Maximum luminous intensity in cd when used as	
		Single lamp	Lamp (single) marked "D" (see paragraph 4.2.2.3.)
<b>1</b>	<b>175</b>	<b>1000</b>	<b>500</b>
<b>1a</b>	<b>250</b>	<b>1200</b>	<b>600</b>
<b>1b</b>	<b>400</b>	<b>1200</b>	<b>600</b>
<b>2a (steady)</b>	<b>50</b>	<b>500</b>	<b>250</b>
<b>2b (variable)</b>	<b>50</b>	<b>1000</b>	<b>500</b>
<b>5</b>	<b>0.6</b>	<b>280</b>	<b>140</b>
<b>6</b>	<b>50</b>	<b>280</b>	<b>140</b>

"

Paragraph 6.1.1., amend to read:

"6.1.1. For an assembly of two or more direction indicator lamps the total intensity shall not exceed the maximum value ~~prescribed for a single lamp multiplied by 1.4. This shall not apply to lamps of category 2a.~~"

Paragraph 6.4.1.1., amend to read:

"6.4.1.1 In divergence from paragraphs **6.4. and 6.4.1.**, for ~~categories~~ **category 4** and 5 direction indicators, to the rear, a minimum value of 0.6 cd is required throughout the fields specified in Annex 1;"

Paragraph 6.4.3.1., amend to read:

"6.4.3.1 Throughout the fields defined in the diagrams in Annex 1, the intensity of the light emitted must be not less than 0.7 cd for devices of category 1b, not less than 0.3 cd for devices of categories 1, 1a, 2a, 2b, ~~3, 4~~ towards the front and for those of category 2b by day; it shall not be less than 0.07 cd for devices of category 2b by night;"

Paragraphs 6.4.3.2. and 6.4.3.3., to be deleted

Paragraph 6.4.3.4., renumber as paragraph 6.4.3.2.

Insert new paragraph 14.14., to read:

**"14.14. Existing approvals to direction indicator lamps of the categories 3 and 4 approved under this Regulation prior to the introduction of Supplement 16 to the 01 series of amendments, shall remain valid indefinitely."**

Annex 1,

The reference and the drawing referring to Categories 3 and 4 (front-side direction indicators), to be deleted.

Annex 2,

Item 9, amend to read:

"9. Concise description:

....

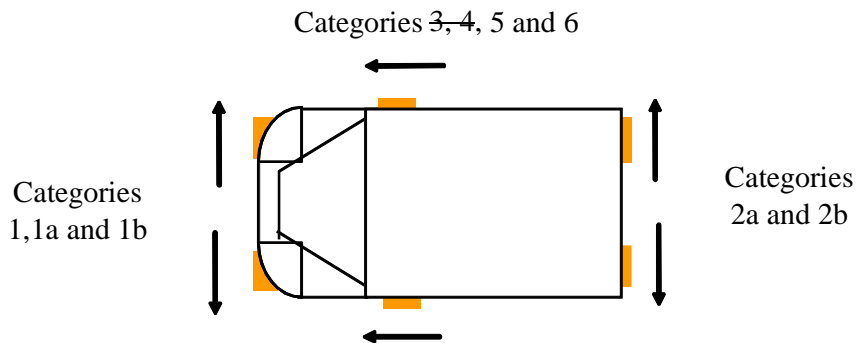
Category: 1, 1a, 1b, 2a, 2b, ~~3, 4~~, 5, 6 2/

...."

Annex 3, amend to read:

".....

The direction in which the arrows on the approval mark point, according to the category of the device, is shown below:



..."

Annex 4,

Paragraph 2, the title, amend to read:

"2. Table of standard light distribution in space for direction indicator lamps of categories 1, 1a, 1b, 2a, 2b, ~~3 and 4~~ (towards the front only)."

Paragraph 2.1.1., amend to read:

"2.1.1 in the direction  $H = 0^\circ$  and  $V = 0^\circ$  for categories 1, 1a, 1b, 2a, 2b, ~~3 and in the case of category 4 to the front only~~; and in the case of category 5 in the angular area in the direction A as prescribed in Annex 1 "

A.2. PROPOSAL TO AMEND REGULATION No. 7 - (Direction indicators) (The following text is based upon the current text of the Regulation including draft Supplement 15 to the 02 series of amendments to the Regulation).

Paragraph 6.1., the table, amend to read:

"6.1 In the reference axis, the light emitted by each of the two devices supplied must be of not less than the minimum intensity and of not more than the maximum intensity specified below:

	Minimum intensities cd	Maximum values in cd when used as		
		Single lamp	Lamp (single) marked "D" (para. 4.2.2.6.)	<b>Total for the assembly of two or more lamps</b>
6.1.1. Front position (side) lamps, front end-outline marker lamp	4	<b>140</b>	50	<b>84</b>
6.1.2. Front position (side) lamps incorporated in headlamp	4	<b>140</b>	-	
6.1.3. Rear position (side) lamps, rear end-outline marker lamp				
6.1.3.1. R or R1 (steady)	4	<b>17</b>	8.5	<b>17</b>
6.1.3.2. R2 (variable)	4	<b>42</b>	21	<b>42</b>
6.1.4. Stop-lamps				
6.1.4.1. S1 (steady)	60	<b>260</b>	130	<b>260</b>
6.1.4.2. S2 (variable)	60	<b>730</b>	365	<b>730</b>
6.1.4.3. S3 (steady)	25	<b>110</b>	55	<b>110</b>
6.1.4.4. S4 (variable)	25	<b>160</b>	80	<b>160</b>

Paragraph 6.1.5., amend to read:

"6.1.5. For an assembly of two or more lamps the total intensity shall not exceed the maximum value prescribed for a single lamp, ~~multiplied by 1.4.~~"

Paragraph 6.1.6., amend to read:

"6.1.6. When an assembly of two or more lamps having the same function is deemed to be a single lamp, it shall comply with the requirements for:

- Maximum intensity if all lamps together are lit (~~last column of the table~~);
- Minimum intensity if one lamp has failed."

B. JUSTIFICATION

This proposal has the following objectives:

- (a) To align the requirements in Regulation 6 with those in Regulation 48 with regard to the Direction Indicators of categories 3 and 4. As Regulation 48 does not permit these categories to be installed, it is proposed to delete these also from Regulation 6 as their function can be achieved by grouping or combining the devices of categories 1, 2 and 5.
- (b) To simplify the photometric provisions of Regulations 6 and 7 by specifying one maximum intensity value irrespective of the number of light sources and how they are connected. Unnecessary requirements for the maximum values to the angles outside the reference axis and the 1.4 factor have also been deleted.

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