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World Forum for Harmonization of Vehicle Regulations

Working Party on Lighting and Light-Signalling

Sixtieth session

Geneva, 1 - 3 October 2008

Item 5(j) of the provisional agenda

COLLECTIVE AMENDMENTS

Regulations Nos. 6 and 7

Proposal for draft Supplement 15 to the 02 series of amendments to Regulation No. 7
(Front and rear position (side) lamps, stop lamps and end-outline marker lamps)

Submitted by the experts from France and Germany */

The text reproduced below was prepared by the experts from France and Germany in order to align certain provisions in Regulation No. 7 to those of Regulation No. 6 as requested by the Working Party on Lighting and Light-Signalling (GRE) at its the fifty-ninth session (see ECE/TRANS/WP.29/GRE/59, paragraph 53). The modifications to the current text of Regulation No. 7 are marked in bold or strikethrough characters. The reference(s) to further footnote(s) will be renumbered accordingly.

*/ 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

The title, amend to read:

"UNIFORM PROVISIONS CONCERNING THE APPROVAL OF FRONT AND REAR POSITION (~~SIDE~~) LAMPS, STOP-LAMPS AND END-OUTLINE MARKER LAMPS FOR MOTOR VEHICLES (EXCEPT MOTOR CYCLES) AND THEIR TRAILERS"

Paragraphs 6.1., amend to read (delete the references to footnotes 3/ and 4/ and footnotes ~~3/~~ and ~~4/~~):

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

<u>3/</u>	Minimum luminous intensity in cd	Maximum luminous intensity in cd when used as		
		Single lamp	Lamp (single) marked "D" paragraph (4.2.2.6.)	Total for the assembly of two or more lamps 4/
6.1.1. Front position (side) lamps, front end-outline marker lamps	4	60	42	84
6.1.2. Front position (side) lamps, incorporated in a head lamp	4	100		
6.1.3. Rear position lamps, rear end-outline marker lamps				
6.1.3.1. R1 (steady)	4	12	8.5	17
6.1.3.2. R2 (variable)	4	30	21	42
6.1.4. Stop-lamps				
6.1.4.1. S1 (steady)	60	185	130	260
6.1.4.2. S2 (variable)	60	521	365	730
6.1.4.3. S3 (steady)	25	80	55	110
6.1.4.4. S4 (variable)	25	114	80	160

~~3/ The installation of the devices referred to above in power driven vehicles and their trailers is provided for in the Regulations concerning the installation of lighting and light signalling devices (Regulations Nos. 48 and 53).~~

~~4/ The total value of maximum intensity for an assembly of two or more lamps is given by multiplying by 1.4 the value prescribed for a single lamp.~~

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.

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:

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

6.1.7. In case of failure of a single lamp the following provisions shall apply:

6.1.7.1. A group of light sources, wired so that the failure of any one of them causes all of them to stop emitting light, shall be considered to be one light source.

6.1.7.2. The lamp shall comply with the minimum intensity required when any one light source has failed. However, for lamps designed for only two light sources, 50 per cent of the minimum intensity in the axis of reference of the lamp shall be considered sufficient, provided that a note in the communication form states that the lamp is only for use on a vehicle fitted with an operating tell-tale which indicates when any one of these two light sources has failed;

6.1.8. When all light sources are illuminated the maximum intensity specified for a single lamp may be exceeded provided that the single lamp is not marked "D" and the maximum intensity specified for an assembly of two or more lamps is not exceeded."

Paragraphs 6.2.1. to 6.2.3., amend to read:

"6.2.1. In each direction corresponding to the points in the light distribution table reproduced in Annex 4 to this Regulation, be not less than the product of the minimum specified in **the table of** paragraph 6.1. above, by the percentage specified in the said table of the direction in question;

6.2.2. In no direction within the space from which the light-signalling device is visible, exceed the maximum specified **in the table of** paragraph 6.1. above;

6.2.3. However, a luminous intensity of 60 cd shall be permitted for rear position (~~side~~) lamps reciprocally incorporated with stop-lamps (see paragraph 6.1.3. above) below a plane forming an angle of 5° with and downward from the horizontal plane;"

Paragraphs 6.2.4.1. and 6.2.4.2., amend to read:

"6.2.4.1. Throughout the fields defined in the diagrams in Annex 1, the luminous intensity of the light emitted must be not less than 0.05 cd for front and rear position (~~side~~) lamps and end-outline marker lamps, not less than 0.3 cd for stop-lamps;"

6.2.4.2. If a rear position (~~side~~) lamp is reciprocally incorporated with a stop-lamp producing either steady or variable luminous intensity, the ratio between the luminous intensities actually measured of the two lamps when turned on simultaneously at the intensity of the rear position (~~side~~) lamp when turned on

alone should be at least 5 : 1 in the field delimited by the straight horizontal lines passing through $\pm 5^\circ$ V and the straight vertical lines passing through $\pm 10^\circ$ H of the light distribution table.

If the rear position (~~side~~) lamp or the stop lamp or both contain more than one light source and are considered as a single lamp ~~as defined in note 2 of the table in paragraph 6.1. above~~, the values to be considered are those obtained with all sources in operation;"

B JUSTIFICATION:

According to the decision taken during the fifty-ninth session of GRE (see ECE/TRANS/WP.29/GRE/59, paragraph 53) the proposed amendments are needed to align the requirements of Regulation No. 7 with those of Regulation No. 6 and to introduce some corrections to the existing text.
