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**ECONOMIC COMMISSION FOR EUROPE**

**INLAND TRANSPORT COMMITTEE**

World Forum for Harmonization of Vehicle Regulations

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Geneva, 9-12 March 2010  
Item 4.2.12 of the provisional agenda

**1958 AGREEMENT**

Consideration of draft amendments to existing Regulations

Proposal for the 04 series of amendments to Regulation No. 19  
(Front fog lamps)

Submitted by the Working Party on Lighting and Light-Signalling \*/

The text reproduced below was adopted by the Working Party on Lighting and Light-Signalling (GRE) at its sixty-second session. It is based on ECE/TRANS/WP.29/GRE/2009/48, not amended. It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to the Administrative Committee (AC.1) for consideration (ECE/TRANS/WP.29/GRE/62, para. 20).

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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.

Paragraph 6.3.1.1., amend to read:

"6.3.1.1. During the testing of the front fog lamp the power supply for this filament lamp shall be regulated so as to obtain the reference luminous flux at 13.2 V as indicated in the relevant data sheet of Regulation No. 37."

Paragraph 6.3.1.2., amend to read:

"6.3.1.2. During the testing of a front fog lamp where the filament lamp cannot be replaced, the voltage at the terminals of the front fog lamp shall be regulated at 13.2 V."

Paragraph 6.3.5., amend to read:

"6.3.5. The illumination (see Annex 4 paragraph 2.1) shall meet the following requirements:

Designated lines or zones	Vertical position */	Horizontal position */	Luminous intensity	To comply
Line 1	15° U to 60°U	0°	145 cd max	All line
Zone A	0° to 1.75°U	5° L to 5°R	85 cd min	Whole zone
Zone B	0° to 3.5°U	26°L to 26°R	570 cd max	Whole zone
Zone C	3.5°U to 15°U	26°L to 26°R	360 cd max	Whole zone
Zone D	1.75°D to 3.5°D	12°L to 12°R	1700 cd min 11500 cd max	At least one point on each vertical line
Zone E	1.75°D to 3.5°D	12°L to 22°L and 12°R to 22°R	810 cd min 11500 cd max	At least one point on each vertical line
*/ The co-ordinates are specified in degrees for an angular web with a vertical polar axis.				

The luminous intensity shall be measured in either white or selective yellow light as prescribed by the manufacturer for use of the front fog lamp in normal service.

Variations detrimental to satisfactory visibility in either of the Zones B and C are not permitted."

Paragraph 6.3.6., amend to read:

"6.3.6. In the light-distribution as specified in the table in paragraph 6.3.5., single narrow spots or stripes inside the area above 15° with not more than 230 cd are allowed, if not extending beyond a conical angle of 2° aperture or a width of 1°. If multiple spots or stripes are present they shall be separated by a minimum angle of 10°."

Paragraph 6.4.1.1.1., amend to read:

"6.4.1.1.1. The front fog lamp shall comply with the requirements of paragraph 6.4.3. of this Regulation with at least one complete set of appropriate standard (etalon) lamps, which may be supplied by the manufacturer or applicant.

...

...

During the testing of the front fog lamp, the power supply to the filament lamp(s) shall be regulated so as to obtain the reference luminous flux at 13.2 V as indicated on the relevant data sheet of Regulation No. 37."

Paragraph 6.4.1.1.2., amend to read:

"6.4.1.1.2. In the case of a system that uses a light source control gear being part of the lamp, the voltage declared by the applicant shall be applied to the input terminals of that lamp."

Paragraph 6.4.1.1.3., amend to read:

"6.4.1.1.3. In the case of a system that uses a light source control gear not being part of the lamp the voltage declared by the applicant shall be applied to the input terminals of that light source control gear. The test laboratory shall require from the applicant the special light source control gear needed to supply the light source and the applicable functions. The identification of that light source control gear if applicable and/or the voltage applied including the tolerances shall be noted in the communication form in Annex 1 of this Regulation."

Paragraph 6.4.1.2., amend to read:

"6.4.1.2. In the case of a gas-discharge light source:

A standard light source shall be used as specified in Regulation No. 99, which has been aged during at least 15 cycles, in accordance with Annex 4, paragraph 4. of Regulation No. 99.

During testing of the front fog lamp the voltage at the terminals of the ballast shall be regulated to maintain 13.2 V for a 12 V system, or at the vehicle voltage as specified by the applicant, with a tolerance of  $\pm 0.1$  V.

The objective luminous flux of the gas-discharge light source may differ from that specified in Regulation No. 99. In this case, the luminous intensity values shall be corrected accordingly."

Paragraph 6.4.1.3., amend to read:

"6.4.1.3. In the case of non-replaceable light sources:

All measurements on front fog lamps equipped with non-replaceable light sources shall be made at 6.3 V, 13.2 V or 28.0 V or at other vehicle voltage as specified by the applicant. The test laboratory may require from the applicant the special power supply needed to supply the light sources. The test voltages shall be applied to the input terminals of the lamp."

Paragraph 6.4.3., amend to read:

"6.4.3. Photometric requirements:

When so adjusted, the front fog lamp shall meet the photometric requirements in the table below (refer also to Annex 4, paragraph 2.2. of this Regulation):

Designated lines or zones	Vertical position <sup>*/</sup> above h + below h -	Horizontal position <sup>*/</sup> left of v: - right of v: +	Luminous intensity (in cd)	To comply
Point 1, 2 <sup>**/</sup>	+ 60°	± 45°	85 max	All points
Point 3, 4 <sup>**/</sup>	+ 40°	± 30°		
Point 5, 6 <sup>**/</sup>	+ 30°	± 60°		
Point 7, 10 <sup>**/</sup>	+ 20°	± 40°		
Point 8, 9 <sup>**/</sup>	+ 20°	± 15°		
Line 1 <sup>**/</sup>	+ 8°	- 26° to + 26°	130 max	All line
Line 2 <sup>**/</sup>	+ 4°	- 26° to + 26°	150 max	All line
Line 3	+ 2°	- 26° to + 26°	245 max	All line
Line 4	+ 1°	- 26° to + 26°	360 max	All line
Line 5	0°	- 10° to + 10°	485 max	All line
Line 6 <sup>***/</sup>	- 2.5°	from 5° inwards to 10° outwards	2,700 min	All line
Line 7 <sup>***/</sup>	- 6.0°	from 5° inwards to 10° outwards	< 50 per cent of max. on line 6	All line
Line 8L and R <sup>***/</sup>	-1.5° to - 3.5°	- 22° and + 22°	1,100 min	One or more points
Line 9L and R <sup>***/</sup>	-1.5° to - 4.5°	- 35° and + 35°	450 min	One or more points
Zone D	- 1.5° to - 3.5 °	- 10° to + 10°	12,000 max	Whole zone
<sup>*/</sup>	The co-ordinates are specified in degrees for an angular web with a vertical polar axis.			
<sup>**/</sup>	See paragraph 6.4.3.4.			
<sup>***/</sup>	See paragraph 6.4.3.2.			

"

Paragraph 6.4.3.1., amend to read:

"6.4.3.1. The luminous intensity shall be measured either with white light or coloured light as prescribed by the applicant for use of the fog lamp in normal service. Variations in homogeneity detrimental to satisfactory visibility in the zone above the line 5 from 10 degrees left to 10 degrees right are not permitted."

Paragraph 6.4.3.4., amend to read:

"6.4.3.4. In the light-distribution as specified in the table in paragraph 6.4.3., single narrow spots or stripes inside the area including the measuring points 1 to 10 and line 1 or inside the area of line 1 and line 2 with not more than 175 cd are allowed, if not extending beyond a conical angle of 2° aperture or a width of 1°. If multiple spots or stripes are present they shall be separated by a minimum angle of 10°."

Paragraph 6.4.4.1., amend to read:

"6.4.4.1. In the case of front fog lamps equipped with gas-discharge light sources the luminous intensity shall exceed 1080 cd in the measuring point at 0° horizontal and 2° D vertical, four seconds after activation of the fog lamp which has not been operated for 30 minutes or more."

Paragraph 14., amend to read:

"14. TRANSITIONAL PROVISIONS

14.1. In the case of Class B front fog lamps:

14.1.1. From the date of entry into force of the 04 series of amendments to this Regulation no Contracting Party applying it shall refuse to grant approvals under this Regulation as amended by the 02 or 03 series of amendments. Existing approvals and extensions of these approvals remain valid indefinitely.

14.1.2. As from 24 months after the date of entry into force of the 03 series of amendments, Contracting Parties applying this Regulation shall grant approvals only if Class B front fog lamps meet the requirements of this Regulation as amended by the 03 or 04 series of amendments.

14.1.3. As from 36 months after the date of entry into force of the 03 series of amendments, Contracting Parties applying this Regulation shall grant approvals for a new type of front fog lamp only if front fog lamps meet the requirements of Class F3 of this Regulation as amended by to the 03 series of amendments.

14.1.4. Existing approvals for front fog lamps already granted under this Regulation before the date of entry into force of the 03 series of amendments shall remain valid. However, after the date of entry into force of the 03 series of amendments, Contracting Parties

applying this Regulation may prohibit the fitting of front fog lamps equipped with filament lamps unless they satisfy the requirements of Regulation No. 37.

- 14.1.5. Contracting Parties applying this Regulation may prohibit the fitting of devices, which do not meet the requirements of the 03 or 04 series of this Regulation:
  - 14.1.5.1. on vehicles for which type approval or individual approval is granted more than 24 months after the date of entry into force of the 03 series of amendments.
  - 14.1.5.2. on vehicles first registered more than 60 months after the date of entry into force of the 03 series of amendments
- 14.1.6. As from 60 month after the date of entry into force of the 03 series of amendments, Contracting Parties applying this Regulation shall refuse to grant any extensions of approvals if the front fog lamps do not meet the requirements of Class F3 of this Regulation as amended by the 03 series of amendments.
  - 14.1.6.1. Contracting Parties applying this Regulation shall continue to issue approvals for front fog lamps on the basis of the 03 series and the 02 series of amendments to this Regulation, provided that the fog lamps are intended as replacements for fitting to vehicles in use.
- 14.2. In the case of Class F3 front fog lamps:
  - 14.2.1. From the date of entry into force of the 04 series of amendments to this Regulation, no Contracting Party applying it shall refuse to grant approvals, under this Regulation as amended by the 04 series of amendments. Existing approvals and extensions of these approvals remain valid indefinitely.
  - 14.2.2. As from 60 months after the date of entry into force of the 04 series of amendments, Contracting Parties applying this Regulation shall grant approvals only if Class F3 front fog lamps meet the requirements of this Regulation as amended by the 04 series of amendments."

Annex 2,

Paragraph 2.2., amend to read:

"2.2. for the measured values in the table according to paragraph 6.4.3. of this Regulation the respective maximum deviations may be:

Designated lines or zones	Vertical position */ above h + below h -	Horizontal position */ left of v: - right of v: +	Luminous intensity candela		To comply
			Equivalent 20 per cent	Equivalent 30 per cent	
Point 1, 2 **/	+60°	± 45°	115 max	130 max	All points
Point 3, 4 **/	+40°	± 30°			
Point 5, 6 **/	+30°	± 60°			
Point 7,10 **/	+20°	± 40°			
Point 8, 9 **/	+20°	± 15°			
Line 1 **/	+ 8°	- 26° to + 26°	160 max	170 max	All line
Line 2 **/	+ 4°	- 26° to + 26°	180 max	195 max	All line
Line 3	+ 2°	- 26° to + 26°	295 max	320 max	All line
Line 4	+ 1°	- 26° to + 26°	435 max	470max	All line
Line 5	0°	- 10° to + 10°	585 max	630 max	All line
Line 6	- 2.5°	- 10° to + 10°	2,160 min	1,890min	All line
Line 8 L and R ***/	-1.5° to - 3.5°	- 22° and + 22°	880 min	770min	One or more points
Line 9 L and R ***/	-1.5° to - 4.5°	- 35° and + 35°	360 min	315 min	One or more points
Zone D	- 1.5° to – 3.5 °	- 10° to + 10°	14,400 max	15,600 max	Whole zone
*/ The co-ordinates are specified in degrees for an angular web with a vertical polar axis.					
**/ See paragraph 6.4.3.4. of this Regulation.					
***/ See paragraph 6.4.3.2. of this Regulation.					

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Annex 5,

Insert a new paragraph 1.1.2.5., to read:

"1.1.2.5. For a gas-discharge light source, the test voltage for the ballast is  $13.2 \pm 0.1$  volts for 12 V network system, or otherwise specified in the application for approval."

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