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**ECONOMIC COMMISSION FOR EUROPE**

**INLAND TRANSPORT COMMITTEE**

**World Forum for Harmonization of Vehicle Regulations**

One-hundred-and-forty-ninth session  
Geneva, 10 - 13 November 2009  
Item 4.2.23 of the provisional agenda

**1958 AGREEMENT**

Consideration of draft amendments to existing Regulations

Proposal for Supplement 5 to Regulation No. 99  
(Gas-discharge light sources)

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-first session. It is based on ECE/TRANS/WP.29/GRE/2009/26, as amended by para. 34 of the report. 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/61, para. 34).

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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.

Paragraphs 2.1.2. and 2.1.2.2., amend to read:

"2.1.2. Gas-discharge light sources of different "types" 1/ are gas-discharge light sources within the same category which differ in such essential respects as:

2.1.2.1. trade name or mark; that means:

(a) Gas-discharge light sources bearing the same trade name or mark but produced by different manufacturers are considered as being of different types.

(b) Gas-discharge light sources produced by the same manufacturer differing only by the trade name or mark may be considered to be of the same type;

2.1.2.2. bulb and/or cap design, in so far as these differences affect the optical results."

1/ A selective yellow bulb or an additional selective yellow outer bulb, solely intended to change the colour but not the other characteristics of a gas-discharge light source emitting white light, does not constitute a change of type of the gas-discharge light source."

Paragraph 2.4.2., amend to read:

"2.4.2. ....

The same Contracting Party may not assign the same code to another type of gas-discharge light source. If the applicant so desires the same approval code may be assigned to both gas-discharge light sources emitting white and selective yellow light (see paragraph 2.1.2.)."

Paragraph 3.8., amend to read:

"3.8. Luminous flux

When measured according to the conditions specified in Annex 4 , the luminous flux shall be within the limits given on the relevant data sheet. In the case where white and selective yellow is specified for the same type, the objective value applies to light sources emitting white light, whereas the luminous flux of the light source emitting selective yellow light shall be at least 68 per cent of the specified value."

Paragraph 3.9.1., amend to read:

"3.9.1. The colour of the light emitted shall be white or selective yellow. Moreover, the colorimetric characteristics, expressed in CIE chromaticity coordinates, shall lie within the boundaries given on the relevant data sheet."

Paragraph 3.9.4, amend to read:

"3.9.4. The minimum red content of a gas-discharge light source shall be such that: ..."

Paragraph 3.11., amend to read:

"3.11. Standard gas-discharge light sources

Standard (etalon) gas-discharge light sources shall comply with the requirements applicable to type approval light sources and to the specific requirements as stated in the relevant data sheet. In case of a type emitting white and selective yellow light, the standard light source shall emit white light."

Annex 1, sheets DxR/4 and DxS/4, amend the bottom part of both tables to read:

" ...

Luminous flux	....	....	....	....
Chromaticity co-ordinates in the case of white light	Objective		$x = 0.375$	$y = 0.375$
	Tolerance area <u>3/</u>	<u>Boundaries</u>	$x = 0.345$	$y = 0.150 + 0.640 x$
			$x = 0.405$	$y = 0.050 + 0.750 x$
		Intersection points	$x = 0.345$	$y = 0.371$
			$x = 0.405$	$y = 0.409$
$x = 0.405$	$y = 0.354$			
$x = 0.345$	$y = 0.309$			
Hot re-strike switch-off time	s	10	10	

..."

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