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Working Party on Lighting and Light-Signalling (GRE)

(Forty-eighth session, 9-12 April 2002,  
agenda item 6.7.)

PROPOSAL FOR DRAFT (COLLECTIVE) AMENDMENTS TO REGULATIONS Nos.:

- 3 (Retro-reflectors)
- 7 (Position, stop and end-outline marker lamps)
- 38 (Rear fog lamps)
- 50 (Position, stop, direction indicator lamps for motorcycles)
- 77 (Parking lamps)
- 91 (Side-marker lamps)

Transmitted by the Expert the Working Party "Brussels 1952" (GTB)

Note: The text reproduced below was prepared by the expert from GTB, in order to amend the trichromatic coordinates for red light in the above Regulations.

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Note: This document is distributed to the Experts on Lighting and Light-Signalling only.

GE.02-20408

**A. PROPOSAL:**

In the Regulations specified below, the "Trichromatic co-ordinates" of the red colour for signalling lights, amend to read: \*/

(a) Regulation No. 3 (Retro-reflectors),

Annex 6, paragraph 2, amend to read:

".....following limits:

<b>Red:</b>	<b>limit towards yellow:</b>	<b>y = 0.335</b>
	<b>limit towards purple:</b>	<b>y = 0.980 - x</b>

Amber: ....."

(b) Regulation No. 7 (Position, stop and end-outline marker lamps),

Annex 5, amend to read:

<b>"RED:</b>	<b>Limit towards yellow:</b>	<b>y = 0.335</b>
	<b>" " purple:</b>	<b>y = 0.980 - x</b>

WHITE: ....."

(c) Regulation No. 38 (Rear fog lamps),

Paragraph 9, amend to read (footnote \*/ not modified):

".....the following trichromatic coordinates:

<b>limit towards yellow:</b>	<b>y = 0.335</b>
<b>limit towards purple:</b>	<b>y = 0.980 - x</b>

However, for lamps equipped ....."

(d) Regulation No. 50 (Position, stop, direction indicator lamps for motorcycles),

Annex 5, amend to read:

<b>"Red:</b>	<b>limit towards yellow:</b>	<b>y = 0.335</b>
	<b>limit towards purple:</b>	<b>y = 0.980 - x</b>

White: ....."

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\*/ It is the view of the secretariat that the presentation of the trichromatic coordinates should be aligned with that used in all Regulations concerned, i.e. indicating not only the limit itself, but the area up to the limit (signs "=" and "=", not only "="), similarly as it has been finally done in the case of trichromatic coordinates for amber colour.

(e) Regulation No. 77 (Parking lamps),

Annex 5, amend to read:

"RED:        limit towards yellow:         $y = 0.335$   
              limit towards purple:         $y = 0.980 - x$

WHITE        ....."

(f) Regulation No. 91 (Side-marker lamps),

Annex 5, amend to read:

"Amber:     limit towards ..... :        .....

Red:        limit towards yellow:         $y = 0.335$   
              limit towards purple:         $y = 0.980 - x$

For checking these colorimetric ....."

\*        \*        \*

**B. JUSTIFICATION:**

In view of the development of new technology light sources, it is considered necessary to modify the limits of the red trichromatic coordinates.

The limits proposed are identical to the limits specified in SAE J578 and CIE No. 2.2 (TC - 1.6) 1975. These limits are already being applied for many years. There is no evidence in the United States of America that these limits have resulted in a detrimental effect on traffic safety, when compared with countries which apply ECE Regulations.

In addition, the new limits support the efforts for harmonization of worldwide specifications and simplify the conversion of ECE Regulations into global technical regulations. This proposal corresponds to the equivalent proposal for amber trichromatic coordinates in document TRANS/WP.29/GRE/2000/13.

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