



**Economic and Social  
Council**

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**ECONOMIC COMMISSION FOR EUROPE**

INLAND TRANSPORT COMMITTEE

World Forum for Harmonization of Vehicle Regulations (WP.29)

Working Party on Lighting and Light-Signalling (GRE)

(Fiftieth session, 7-11 April 2003,  
agenda item 6.7.)

PROPOSAL FOR COLLECTIVE AMENDMENTS TO  
REGULATIONS Nos. 3, 6, 50, 65 and 91

Transmitted by the expert from the United Kingdom

Note: The text reproduced below was prepared by the expert from the United Kingdom with the aim of correcting in the Regulations the provisions concerning the limits for the trichromatic coordinates of the colour of amber lights.

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

**A. PROPOSAL**

REGULATION No. 3 (Retro-reflecting devices) - supplement 6 to the 02 series of amendments

Annex 6, paragraph 2, amend to read:

"Amber : ...  
limit towards white :  $y \geq 0.790 - 0.670 x$ "

REGULATION No. 6 (Direction indicator) - supplement 10 to the 01 series of amendments

Annex 5, the trichromatic co-ordinates, amend to read:

"...  
Limit towards white :  $y \geq 0.790 - 0.670 x$   
For checking these colorimetric ..."

REGULATION No. 50 (Position, stop and direction indicator lamps) - supplement 5

Annex 5, amend to read:

"Amber : ...  
limit towards white :  $y \geq 0.790 - 0.670 x$   
Selective yellow ..."

REGULATION No. 65 (Special warning lamps) - supplement 3

Annex 3, amend to read:

"1. Amber \*/  
...  
limit towards white :  $y \geq 0.790 - 0.670 x$ "

REGULATION No. 91 (Side-marker lamps) - supplement 4

Annex 5, amend to read:

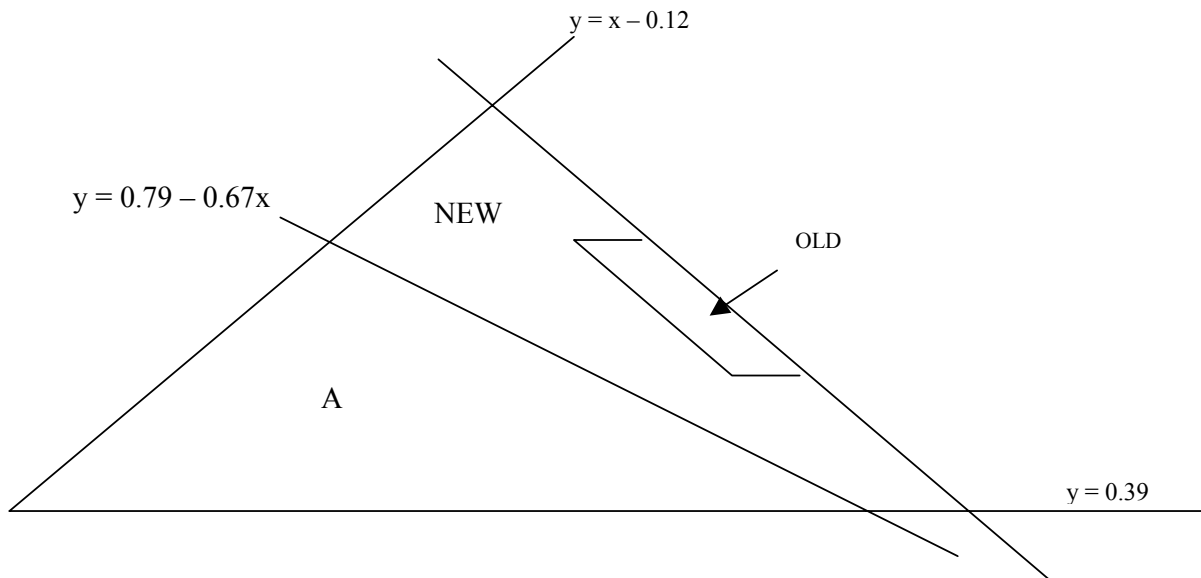
"Amber: ...  
limit towards white :  $y \geq 0.790 - 0.670 x$ "

\* \* \*

**B. JUSTIFICATION**

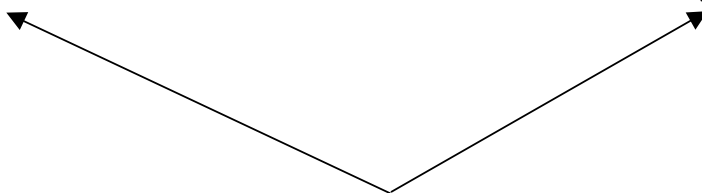
An error has been made and the "less than or equal to" sign following the letter "y" should be removed and replaced by a "greater than or equal to" sign.

The following problem has arisen with the amendment to the Regulations for the amber colour box. As is demonstrated below the wrong area is described.



Area A defined by amendment to Regulations  
 $y \geq 0.39$   
 $y \leq x - 0.12$   
 $y \leq 0.79 - 0.67x$

NEW area defined by  
 $y \geq 0.39$   
 $y \leq x - 0.12$   
 $y \geq 0.79 - 0.67x$



Note the difference  
 This means that area A in the Regulations is not NEW as was intended

**For the future, GRE may want to consider replacing the "less than" or "greater than" signs with an "equals" sign to remove the possibility for confusion. This is also more correct in line with the terminology used – "the limit towards white". A limit is a line ( $y = \dots$ ) and not a half plane.**