

Distr.
GENERAL

TRANS/WP.29/GRE/2001/12
12 January 2001

Original: ENGLISH

ECONOMIC COMMISSION FOR EUROPE

INLAND TRANSPORT COMMITTEE

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

Working Party on Lighting and Light-Signalling (GRE)
(Forty-sixth session, 27-30 March 2001,
agenda item 2.2.)

PROPOSAL FOR DRAFT AMENDMENTS TO REGULATION No. 7

(Position, stop and end-outline marker lamps)

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

Note: The text reproduced below was prepared by the expert from GTB, in order to allow devices complying with Regulation No. 7 to operate in different ways and with different voltage for other than daytime or nighttime use. The modifications, where applicable, are marked in bold text.

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

GE.01-20153

A. PROPOSAL

Insert a new paragraph 3.5., to read:

- "3.5 Lamps operating at voltages other than the nominal rated voltages of 6 V, 12 V or 24 V respectively, by the application of an additional supply system or having a secondary operating mode, must bear a marking denoting the rated secondary design voltage, if the additional supply is not part of the device."

Insert new paragraphs 5.5. and 5.5.1., to read:

- "5.5. Position (side) lamps, which are reciprocally incorporated with another function, using a common light source, and designed to operate permanently with an additional system to regulate the intensity of the light emitted, are permitted.
- 5.5.1. However, in the case of a rear (side) position lamp reciprocally incorporated with a stop lamp, it shall comply with the following:
- (i) either as part of a multiple light source arrangement.
 - (ii) or with a vehicle equipped with a failure monitoring system for that function.

In either case a note shall be made within the communication documents."

Paragraphs 7. and 7.1., amend to read:

- "7. TEST PROCEDURE
- 7.1. All measurements, **photometric and colorimetric**, shall be made with a **colourless** standard filament lamp of the category prescribed for the device, the supply voltage being so regulated as to produce the **reference** luminous flux required for that category of lamp."

Insert a new paragraph 7.1.1., to read:

- "7.1.1. **In the case of a system with more than one intensity, the reference luminous flux prescribed for the specific category of filament lamp shall be applied to the greatest intensity.**"

Paragraph 7.1.1. (former), renumber as paragraphs 7.1.2. and 7.1.3., and amend to read:

- "7.1.2. All measurements, **photometric and colorimetric**, on lamps equipped with non-replaceable light sources (filament lamps and others) shall be made at 6.75 V, 13.5 V or 28.0 V, respectively.

7.1.3. In the case of light sources supplied by a special power supply, the above test voltages shall be applied to the input terminals of that power supply. The test laboratory may require from the manufacturer the special power supply needed to supply the light sources."

Insert new paragraphs 7.3.1. and 7.3.2., to read:

"7.3.1. Where a position (side) lamp is reciprocally incorporated with another lamp, and is designed to operate permanently with an additional system to regulate the intensity of the light emitted, measurement of the light emitted shall be performed at 6,75 V, 13.5 V or 28 V respectively, where the additional system is part of the device.

7.3.2. Where the additional system is not part of the device, then the tests shall be performed at the rated secondary design voltage applied to the light source. The test laboratory may require from the manufacturer the additional system needed to regulate the light source."

Annex 2, item 9., amend to read (footnotes 2/ and 3/ not modified):

"9. Concise description: 3/

By category of lamp:

Colour of light emitted: red/selective yellow/white 2/

Number and category of filament lamp(s):

Special supply voltage Volts

Application of additional supply system yes/no 2/

specification of:

Switched power supply:

Duty cycle: peak to peak voltage: and/or effective voltage:"

* * *

B. JUSTIFICATION

In ECE Regulation No. 7 there is incorporated within paragraph 7. a test procedure for dual intensity. This has been understood to only apply to dual intensity systems for daytime/nighttime use. However in paragraph 2.7.6. of ECE Regulation No. 48 the definition of a reciprocally incorporated lamp permits a single light source to operate in different ways, the examples quoted being optical, mechanical and electrical. These definitions apply to ECE Regulation No. 7.

This has since caused confusion with different interpretations which need to be clarified.

This proposal is to clarify the situation, it permits the light source to operate in different ways for functions other than daytime/nighttime use, and describes clearly the test procedure in case of a system with one or more (levels) intensities. The proposed changes only apply to lighting devices whose functions are within the scope of ECE Regulation No. 7.
