



**Economic and Social
Council**

Distr.
GENERAL

ECE/TRANS/WP.29/GRE/2010/5
14 January 2010

Original: ENGLISH
ENGLISH AND FRENCH ONLY

ECONOMIC COMMISSION FOR EUROPE

INLAND TRANSPORT COMMITTEE

World Forum for Harmonization of Vehicle Regulations

Working Party on Lighting and Light-Signalling

Sixty-third session

Geneva, 29 - 31 March 2010

Item 9 of the provisional agenda

REGULATION No. 38
(Rear fog lamps)

Proposal for Supplement 16 to Regulation No. 38

Submitted by the expert from the Working Party "Brussels 1952" */

The text reproduced below was prepared by the expert from the Working Party "Brussels 1952" (GTB) in order to clarify and simplify the heat testing requirements for rear fog lamps. The modifications to the existing text of the Regulation are marked in bold characters.

*/ 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.

A. PROPOSAL

Paragraphs 8. to 8.4., amend to read:

"8. HEAT RESISTANCE TEST

8.1. The complete lamp shall be mounted to represent the correct installation on the vehicle and shall be subjected to a one-hour test of continuous operation following a warm-up period of 20 minutes. The ambient temperature shall be $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$.

The measuring equipment shall be that used during the type-approval tests of the lamp.

The heat test and the photometric verification shall be carried out using the following light sources, as appropriate, operated without being dismantled from or readjusted in relation to the lamp's test fixture:

- (a) Mass production filament lamp(s), which has(have) been aged for at least one hour;**
- (b) non-replaceable light sources as supplied by the applicant;**
- (c) light-source modules as supplied by the applicant.**

The light source used shall be of the category specified for the lamp, and the test shall be carried out at a voltage of 6.3 V, 13.2 V or 28.0 V respectively applied at the input terminals of the lamp.

In the case of a system that uses a light source control gear not being part of the lamp the voltage declared by the manufacturer, as used for the photometric testing, shall be applied to the input terminals of that light source control gear. The test laboratory shall require from the manufacturer the special light source control gear needed to supply the light source and the applicable functions.

8.2. Where no maximum power is specified, the test shall be carried out with the highest wattage light source that can be used.

8.3. In the case of light sources operated by an electronic control gear to obtain variable luminous intensity, the test shall be carried out under the conditions that produce the highest luminous intensity.

8.4. After the lamp has been stabilized at the ambient temperature, no distortion, deformation, cracking or colour modification shall be perceptible. In case of doubt the light intensity according to paragraph 6, above, shall be checked.

The values obtained shall reach at least 90 per cent of the values measured before the heat resistance test on the same device, but in no case the measured value shall be less than the minimum and/or more than the maximum value specified in this Regulation."

B JUSTIFICATION

This proposal amends the current heat test to specify requirements that are independent of light source technology. Additionally it improves the clarity of the testing requirements whilst simplifying the procedure.
