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World Forum for Harmonization of Vehicle Regulations

Working Party on Lighting and Light-Signalling

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Item 3 of the provisional agenda

REGULATION No. 37
(Filament lamps)

Proposal for Supplement 35 to the 03 series of amendments to
Regulation No. 37 (Filament lamps)

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 inform the Working Party on Lighting and Light-Signalling (GRE), regarding the internal process of GTB for introduction and evaluation of new light source categories into Regulation No. 37. The proposal is based on a document without symbol (informal document No. GRE-61-02), distributed during the sixty-first session of the Working Party on Lighting and Light-Signalling (GRE) (see report ECE/TRANS/WP.29/GRE/61, para. 9).

*/ 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.

GTB INTERNAL PROCESS
FOR INTRODUCTION AND EVALUATION OF NEW LIGHT SOURCE CATEGORIES

I. INTRODUCTION

1. At its fifty-seventh session, GRE adopted ECE/TRANS/WP.29/GRE/2007/17, as draft Supplement 29 to the 03 series of amendments to Regulation No. 37, that was finally adopted by WP.29 at its June 2007 session (ECE/TRANS/WP.29/2007/54), which covered a new system of restrictions. The essence of this proposal was to group categories of light sources in accordance with their suitability for use in lighting devices and to reduce the numbers of footnotes indicating use restrictions. GTB would prepare further amendments and transitional provisions, if needed.

II. STATUS

2. In the meantime GTB has developed an internal procedure for proposing new light source categories and a supporting tool of criteria for evaluation of the suitability of light sources for lighting devices. All of this comprised a package of documents consisting of:

- (a) The present general overview (GTB reference: CE-4233);
- (b) A flow chart describing the GTB process (GTB reference: CE-4179 Annex 1);
- (c) A description to the flow chart: "Recommended practice for the introduction of new ECE light source categories" (GTB reference: CE-4179 Annex 2);
- (d) The "criteria tool", in the form of a table completed with reference data (GTB reference: CE-4234);
- (e) A usage manual for the criteria tool (GTB reference: CE-4179 – Annex 4);
- (f) A form to be completed with new proposals to be able to maintain the reference data (GTB reference: CE-4179 – Annex 5).

III. THE WAY FORWARD

3. As a conclusion from the discussion on grouping of categories filament lamps and the discussion on the application of the criteria tool for evaluating suitability of light source categories for lighting devices, GTB considers initiating a general review of the purpose and scope of Regulation No. 37. The following questions need to be addressed:

- (a) Is Regulation No. 37 a reference book for filament light source categories complying with minimum requirements necessary for traffic safety or a list of selected light source categories complying with the highest standards/ state-of-the-art technology?
- (b) What are the specific/objective and general criteria for incorporation in Regulation No. 37, to be applied to all new/existing light source categories?

4. This discussion should not be restricted to the experts in GTB and its Working Group on Light Sources but should involve also GRE experts, in particular the Contracting Parties applying Regulation No. 37.

IV. INFORMATION

5. The evaluation criteria that are applied to filament lamps of normal production as specified by the data sheets are listed as follows:

1. Values of:
 - (a) The objective luminous flux
 - (b) The filament length (nominal, minimum, maximum)
 - (c) A single accuracy parameter, calculated from the tolerances as below.
2. Tolerances of:
 - (a) The objective luminous flux
 - (b) The filament length
 - (c) The filament position to the reference axis and reference plane.
3. Necessary data to determine the tolerances:
 - (a) The shape and dimensions of the tolerance box, if any
 - (b) The diameter of the filament, or an assumption in case of relative data.
4. Avoidance of stray light images by:
 - (a) The specification of the distortion free area
 - (b) The specification of the metal free zone
 - (c) The displacement of the bulb-axis vs. filament axis (only possible for axial filaments)
 - (d) The specification of a possible opaque top.
5. Year of introduction:
(More precise: by the year of enforcement of the amendment to Regulation No. 37 introducing the new light source category).
6. Use restrictions, if any, on top of the grouping of light source categories.

Example of one of those criteria:


