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World Forum for Harmonization of Vehicle Regulations

Working Party on Lighting and Light-Signalling

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Geneva, 26-30 March 2007
Item 5.5. of the provisional agenda

COLLECTIVE AMENDMENTS

Regulations Nos. 19 and 37

Proposal for draft Supplement 29 to the 03 series of amendments to Regulation No. 37

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) proposing to group the categories of filament lamps, taking into account the applicable restrictions for the use of those lamps. Currently, such restrictions are introduced into the Regulation by different footnotes. The modifications to the existing text of the Regulation (up to Supplement 28 to the 03 series of amendments) are marked in **bold** characters.

Note: This document is distributed to the Experts of the Working Party on Lighting and Light-Signalling (GRE) only.

A. PROPOSAL

Annex 1,

The list of categories of filament lamps and their sheets, amend to read (including the deletion of the references to footnotes ****/ and *****/, the deletion of footnotes ****/ and *****/, as well as the deletion of categories R2 and S1 from the list):

"List of categories of filament lamps, **grouped**, and their sheet numbers:

Group 1

Without general restrictions:

<u>Category</u>		<u>Sheet number(s)</u>
H1		H1/1 to 3
....	
H14		H14/1 to 4
H21W	<u>**/</u>	H21W/1 to 2
H27W/1		H27W/1
....		
HS5		HS5/1 to 4
PSX24W	<u>**/</u>	P24W/1 to 3
PX24W	<u>**/</u>	P24W/1 to 3
S2		S1/S2/1 to 2
S3		S3/1"

The list "only for signalling lamps", amend to read (including the deletion of category C21W from the list):

Group 2

Only for **use in** signalling lamps, **cornering lamps**, **reversing lamps** and **rear registration plate lamps**:

<u>Category</u>	<u>Sheet number(s)</u>
C5W	C5W/1
H6W	H6W/1
....
WY21W	WY21W/1 to 2"

Insert a new list "Group 3", to read:

"Group 3

For replacement purposes only (see transitional provisions of paragraphs 8.3. and 8.4.):

<u>Category</u>	<u>Sheet number(s)</u>
C21W	C21W/1 to 2
R2	R2/1 to 3
S1	S1/S2/1 to 2"

B. BACKGROUND

At its fifty-fifth session, GRE accepted the amendments to Regulations Nos. 19 and 37, which covered the use of 21W and 24W filament lamps in front fog lamps marked "B" as defined in Regulation No. 19, as well as introduced certain restrictions for these lamps. As a result:

- (a) a new paragraph 15.4. was inserted into Regulation No. 19;
- (b) new footnotes for filament lamp categories H21W, PSX24W and PX24W were inserted into Regulation No. 37.

The respective GRE proposals were adopted by the World Forum for Harmonization of Vehicle Regulations (WP.29) and the Administrative Committee (AC.1) at their March 2006 sessions. They are incorporated in Regulations Nos. 19 and 37 as:

- (a) Supplement 11 to the 02 series of amendments to Regulation No. 19 (ECE/TRANS/WP.29/2006/11);
- (b) Supplement 27 to the 03 series of amendments to Regulation No. 37 (ECE/TRANS/WP.29/2006/12).

In order to comply with the provisions of paragraph 15.4. of Regulation No. 19, GTB recommends an approach which would be comprised of two steps:

Step 1 as a short-term solution

A new system of restrictions in Regulation No. 37 should be introduced. The appropriate amendments to Regulation No. 37 are proposed in this document. The essence of this proposal is to group the categories of light sources in accordance with their suitability for use in certain lamps. In addition, the current approach of using footnotes to indicate the use restrictions may be replaced by introducing a new group of light source categories.

At the same time, paragraph 15.4. of Regulation No. 19 and the reference to this paragraph from Regulation No. 37 should be deleted (ECE/TRANS/WP.29/GRE/2007/6).

Step 2 as a medium-term solution

GTB would prepare further amendments to this proposal as well as the transitional provisions, if needed.

C. INFORMATION

The grouping of light source categories is supported by evaluation of a number of criteria that are applied to filament lamps of "normal" production as specified on the data sheets. It does concern:

1. The tolerances of:
 - (a) the filament position with respect to the reference axis and reference plane;
 - (b) the filament length;
 - (c) the luminous flux.

2. The 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 black top.

The geometrical tolerances between cap and holder and fixation to the optical system of the lamp have not been included, but are under consideration.
