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Working Party on Lighting and Light-Signalling (GRE)

(Forty-sixth session, 27-30 March 2001,
agenda item 1.3.)

PROPOSAL FOR DRAFT AMENDMENTS TO REGULATION No. 48
(Installation of lighting and light-signalling devices)

Transmitted by the experts from France and Germany

Note: The text reproduced below was prepared by the experts from Germany and France and distributed without a symbol (informal document No. 14) during the forty-fifth session of GRE. It is aimed to introduce into Regulation No. 48 a new category of "bend lighting", to improve the illumination in curves of the road (TRANS/WP.29/GRE/45, paras. 25 and 26).

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

GE.01-20105

A. PROPOSAL

Insert a new paragraph 2.7.10.1., to read (including a new footnote */:

"2.7.10.1. "Bend lighting" means a lamp, additional or auxiliary to a function (see footnote */ below), that may be used to illuminate the road in the area of curves, and that comply with requirements of the relevant Regulation of the used function.

*/
_ Passing beam (dipped-beam) headlamp or front fog lamp
This could be achieved by e.g.:

- (i) a movement of the headlamp around a substantially vertical axis;
- (ii) a movement of parts of the headlamp;
- (iii) a modification of the beam pattern itself;
- (iv) the use of a front fog lamp on the relevant side."

Paragraph 6.2.9., amend to read:

"6.2.9. Other requirements

The requirements of paragraph 5.5.2. shall not apply to dipped-beam headlamps.

Dipped-beam headlamps may swivel according to the direction of travel.

Dipped-beam headlamps with gas-discharge light sources shall only"

Paragraph 6.3.9., amend to read:

"6.3.9. Other requirements

Front fog lamp on one side of the vehicle may be used to create a bend lighting."

* * *

B. JUSTIFICATION

The proposal covers suggestions submitted during the forty-fifth session of GRE by France (informal document No. 8) and by Germany (informal document No. 10). Also incorporated are the comments received during the consideration of both informal documents (TRANS/WP.29/GRE/45, paras. 20-26).

The proposal combines two different possibilities for a simple realization of a bending light:

- (a) swivelling passing beam headlamps, which had been shown as a part of the demonstration of advanced front lighting systems (AFS) on 4 April 2000, during the forty-fourth session of GRE;
- (b) fog lamps, used to illuminate the side of the road only in the direction of travel.

The bend lighting should improve visibility in curves, because the passing lamps as produced today are only designed for an illumination of the road straight ahead, but in a turn drivers give priority to the curve side area in the direction of vehicle travel.

The bend lighting should allow to optimize the illumination ahead of the vehicle and reduce the glare for oncoming drivers.

The proposed bend lighting is a first step in introducing new lighting technology, contributing to improved road safety.
