

Notes to R.xxx DRAFT

Informal Document No. 2

GRE Informal meeting,
Frankfurt, 28.-30. Jan.2003

28. November 2002

ENGLISH ONLY

ECONOMIC COMMISSION FOR EUROPE

INLAND TRANSPORT COMMITTEE

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

Working Party on Lighting and Light-Signalling (GRE)

~~(Fiftieth session, 07 April — 11 April 2003,
agenda item 3.1.)~~

PROPOSAL FOR A NEW DRAFT REGULATION:

UNIFORM PROVISIONS CONCERNING THE APPROVAL OF
ADAPTIVE FRONTLIGHTING SYSTEMS (AFS)
FOR MOTOR VEHICLES

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

Note: At its forty-eighth session GRE discussed a proposal by GTB for a new draft Regulation on Adaptive Frontlighting Systems (AFS) for motor vehicles (TRANS/WP.29/GRE/2002/18) together with explanatory notes (TRANS/WP.29/GRE/2002/19). After a detailed presentation by the GTB expert GRE agreed to hold an informal meeting from 2 - 4 July 2002 in Frankfurt (TRANS/WP.29/GRE/48, paragraph 50 and 51).

Upon invitation by GRE the open issues of the informal discussion concerning TRANS/WP.29/GRE/2002/18 have been summarized in a separate Informal Document, reproduced below, also containing additional notes and alternative text proposals to a number of paragraphs of Informal Document No.1 which may require discussion in GRE.

Note 1:

Paragraph 2.2.2. of the Draft Regulation (Informal Document No.1). The Informal GRE on AFS (July 2002) considered to delete in this paragraph the text being set in brackets.

Note 2:

Upon invitation during the Informal GRE on AFS (July 2002) and based on the respective proposal by the expert from CLEPA for a simplified marking on lenses GTB-AFS proposes to amend paragraphs 3.2., 4.1.5. and 4.2.5. of the Draft Regulation (Informal Document No.1) to read as follows:

- "3.2. They shall comprise spaces of sufficient size as follows:
3.2.1. on the main bodies for the approval mark and the additional symbols referred to in paragraph 4., and,
3.2.2. on the lenses, if it can be detached from the installation unit's main body, for the international approval mark referred to in paragraph 4.2.1. and 4.3. ;
3.2.3. these spaces shall be indicated on the drawings referred to in paragraph 2.2.1. above." ;
- "4.1.5. In addition to the mark prescribed in paragraph 3.1., to every installation unit of a system conforming to a type approved under this Regulation
- (a) an approval mark as described in paragraphs 4.2. (and its sub-paragraphs) and 4.3. below shall be affixed in the space referred to in paragraph 3.2.1. above and
- (b) an international approval mark as described in paragraphs 4.2.1. and 4.3. shall be affixed in the space referred to in paragraph 3.2.2., if it applies." ;
- "4.2.5. The marks and symbols referred to in paragraphs 4.2.1. through 4.2.4. above shall be clearly legible and be indelible. In any case they shall be visible when the installation unit(s) is/are fitted on the vehicle. The displacement of a movable part of the vehicle is permitted to fulfill this requirement."

Note 3:

Paragraph 5.8. of the Draft Regulation (Informal Document No.1). Upon invitation during the Informal GRE on AFS (July 2002) the Expert from the Czech Republic has proposed an alternative text referring in detail to other standards. The respectively proposed text is reproduced below (*), followed by a corresponding text proposal from the Expert from the Netherlands (**), and a third alternative proposal from the Expert from GTB (**).

- (*) "The system shall comply with the ECE Regulation No. 10, 02 series of amendments for the radiated emission and immunity to the electromagnetic field. It shall also comply with the International Standard ISO 7637-1, 2: 1990 for the disturbances conducted along supply lines. The functional status of the system during ISO test shall be "B" or better at the test level "III"."
- (**) "The system shall be tested for radiated emissions of and immunity against electromagnetic fields (EMC tested), according to ...[ECE Regulation No. 10, 02 series of amendments]. Furthermore, the system shall be tested for emissions of and immunity against conducted disturbances along power lines, according to ...[ISO 7637-2:2002]."
- (***) "Either delete paragraph 5.8. and re-number the rest or, to maintain the paragraph 5.8. unchanged (i.e. the same text as in Regulation No. 98)."

Note 4:

Paragraph 5.9.2. of the Draft Regulation (Informal Document No.1). The Informal GRE on AFS (July 2002) considered to delete this paragraph (the text being set in brackets), if covered by other /general requirements.

Note 5:

A new paragraph 5.9.3.1. to the Draft Regulation (Informal Document No.1), corresponding to a provision adopted by GRE concerning light source modules in signal lamps, could be inserted reading as follows:

"5.9.3.1. The system shall be designed such that even in darkness the light source module(s) can be fitted in no position but the correct one;"

Note 6:

Paragraph 5.9.4. of the Draft Regulation (Informal Document No.1). The Expert from GTB proposes to delete this paragraph. Justification: this issue is covered sufficiently by several detailed provisions concerning safety being included in the text of the Draft Regulation (Informal Document No.1 paragraphs 2.2.2.1. with 5.7.3., 5.9.1., 6.2.6.5., and 6.2.7. as well as 2.2.2.(g) with 6.2.9.1.)

Note 7:

paragraph 6.2.5. of the Draft Regulation (Informal Document No.1) has been amended with a reference to annex 9 (shape of the "cut-off").

Note 8:

Section 6.4. of the Draft Regulation (Informal Document No.1). The Informal GRE on AFS (July 2002) considered to amend the text of this section (text being set in brackets) according to DRL proposals being currently discussed. The present text contains requirements corresponding to those of ECE Regulation No. 87 in combination with those for a passing beam.

Note 9:

A new paragraph 1.1.1.1.(d) of annex 4. to the Draft Regulation (Informal Document No.1) has been inserted corresponding to the respective provisions in Regulations 98 and 112; the respective provision in the footnote 3/ has been deleted.

Note 10:

Annex 9. to the Draft Regulation (Informal Document No.1). The introductory note with respect to left-hand traffic may be superfluous due to the provisions set out in the paragraph 5.1. of the Draft Regulation. This holds also for several other text parts in the document. It might be considered to skip all such text parts if being covered by the provisions of said paragraph 5.1.

Note 11:

Section 3. of annex 9 to the Draft Regulation (Informal Document No.1). The text should be reviewed and eventually aligned to the respective part(s) of TRANS/WP.29/GRE/2002/41 and TRANS/WP.29/GRE/2002/42 covering the same issue for Regulations No. 98 and 112.

Note 12:

Form 2. of annex 11 to the Draft Regulation (Informal Document No.1). The Informal GRE on AFS (July 2002) considered to delete this form (text being set in brackets).

Note 13:

paragraph 1.2.2. of Annex 9. to the Draft Regulation (Informal Document No.1). The Expert from Germany proposes to set the tolerances regarding the shape of the shoulder part of the "cut-off" (above line A and below line B) to 0 deg (instead of 0.2 deg).
