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~~(Fifth session, 8 April – 11 April 2003,
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PROPOSAL FOR DRAFT AMENDMENTS TO DRAFT REGULATION

UNIFORM PROVISIONS CONCERNING THE APPROVAL OF
ADAPTIVE FRONT-LIGHTING SYSTEMS (AFS)
FOR MOTOR VEHICLES

(Headlamps with gas-discharge light sources)

Transmitted by the Expert from Germany

Note: The text reproduced below was prepared by the expert from Germany in order to incorporate corrections into the revised draft proposal TRANS/WP.29/GRE/2002/18. Only the amendments to the text of the proposal to the Regulation are marked in **bold** characters.

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

A. PROPOSAL

Annex 9, (PASSING BEAM "CUT-OFF" AND AIMING PROVISIONS)

Paragraph 3.1., amend to read:

"3.1. Measurements of the illumination E on the aiming screen are performed by vertical scanning through the "horizontal part" of the "cut-off" in steps of $\Delta\beta$ **not exceeding 0.05°** ~~of the vertical angle β~~ ; using a receiver cell ..."

Paragraph 3.2.1., amend to read:

"3.2.1. **Not more than one cut-off line shall be visible. 1**"

Insert new footnote 1/, to read:

1/ This paragraph will be amended, if an objective test method is available."

* * *

B. JUSTIFICATION

In the first part is shown a correction made in the discussion in the last session of GRE in October 2002 to require a step width not exceeding 0.05° .

The experience with application of this measuring procedure has shown, that the step width to carry out such measurements should not be larger than 0.05° to get a sufficient accuracy. The wording "not exceeding" gives test laboratories and manufacturers the opportunity to use the possibilities of their test equipment.

For the second part, an error was noticed in paragraph 3.2.1. of the proposed new annex 9 of draft Regulation Rxxx on AFS.

When applying the formula in the corrected former version of this paragraph it appeared that this test requirement only works with visible double cut-off. But this test procedure detects also double cut-offs, which are not visible. Therefore a new objective procedure has to be developed next time.

To cover the basic idea, the existing text is reduced to a minimum statement with a footnote, saying that when a well verified procedure is available it will be proposed and introduced in future.
