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PROPOSAL FOR DRAFT AMENDMENTS TO REGULATION No. 98

(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 draft proposal TRANS/WP.29/GRE/2002/41. Only the amendments to the text of the proposal to the Regulation are marked in **bold** characters. This document is also seen in connection with document TRANS/WP.29/GRE/2003/16 from the expert of Italy.

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

## A. PROPOSAL

Annex 10, (Definition and sharpness of the "cut-off" line for headlamps)

Paragraph 4., amend to read:

"4. Measurement of the quality of cut-off:

Measurements shall be performed by vertically scanning through the horizontal part of the cut-off line in angular steps **not exceeding 0.05°** at either a measurement distance of:

- 10 m and a detector ..."

Paragraph 4.1., amend to read:

"4.1. **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.**

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## 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 4.1. of the proposed new annex 10 of Regulations Nos. 98, 112 and in paragraph 3.2.1. of the proposed annex 9 of draft Regulation 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.

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