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## **ECONOMIC COMMISSION FOR EUROPE**

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

Working Party on Lighting and Light-Signalling (GRE) (Fifty-fourth session, 5-8 April 2005, agenda item 19.2.)

PROPOSAL FOR DRAFT AMENDMENTS TO REGULATION No. 45 (Headlamp Cleaners)

Transmitted by the Informal Group "Adaptive Front-lighting Systems (AFS)"

<u>Note</u>: The text reproduced below was prepared by the GRE/AFS informal group, following the discussion of the amendments to Regulation No. 45 concerning AFS at the fifty-third GRE session (TRANS/WP.29/GRE/53, paras. 64 and 65). It incorporates the editorial and technical amendments adopted by GRE.

The reference in paragraph 7.1. has been adapted; the symbol of the new UNECE Regulation on AFS should be amended there when it will be available. The modifications to the existing text of the Regulation are marked in **bold** characters. The modifications to document TRANS/WP.29/GRE/2004/29 are marked in *italic* characters.

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

## A. PROPOSAL

Paragraph 2.1., amend to read:

"2.1. <u>Headlamp cleaner</u>" means a complete device with which all or part of the light emitting surface of a headlamp **or an AFS system** can be cleaned;"

<u>Insert a new paragraph 6.1.1.</u>, to read:

"6.1.1. In case the passing beam is provided by an adaptive front-lighting system (AFS): the headlamp cleaner shall be designed and constructed to clean those parts of the light-emitting surface of the AFS which need, according to the provisions of paragraph 6.22.9.1. of Regulation No. 48, to be installed with a cleaning device."

Paragraph 7.1., amend to read:

"7.1. The efficiency of the cleaner shall be tested in accordance with the requirements of Annex 4 to this Regulation. The cleaning efficiency at the points on the measuring screen which are specified below shall, after every cleaning period, amount to at least 70 per cent for the passing lamp and also 70 per cent for the optional driving lamp; in case of an AFS this provision applies to the photometric system value as defined in Annex 9 to Regulation No. xxx (TRANS/WP.29/GRE/2004/27/Rev.1) from those lighting units indicated in paragraph 6.1.1. above."

Paragraphs 7.3.1. and 7.3.2., amend to read:

"7.3.1. Headlamps approved in respect of the passing beam only (marking C or HC or X C/V/E/W/T in the approval mark);

Measuring points: 50 R(L) and 50 V.  $\underline{4}$ /

7.3.2. Headlamps approved in respect of the passing beam and the driving beam (marking CR, HCR, C+R, C+HR, HC+R or HC+HR or X C/V/E/W/R/T)

Measuring points; 50R(L) (and 50V if in the same headlamps, different optic systems for the driving lamp and the passing lamp are provided)."

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## **B.** JUSTIFICATION

In relation to the introduction of the AFS, Regulation No. 45 should be amended for clarification. AFS system relevant photometric procedures should apply, depending on the design of the system.