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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. 48

(Installation of lighting and light-signalling devices)

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

Note: The text reproduced below was prepared by the expert from GTB in order to provide a new text for paragraph 6.22.9.2.2. (compliance testing of automatic AFS activation requirements) as part of the amendments to Regulation No. 48 concerning AFS (TRANS/WP.29/GRE/2004/28/Rev.1) which were discussed at the fifty-third GRE session (TRANS/WP.29/GRE/53, paras. 64 and 65).

The modifications to the current text of TRANS/WP.29/GRE/2004/28/Rev.1 are marked in **bold** characters.

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

A. PROPOSAL

Paragraphs 6.22.9.2. to 6.22.9.2.2., amend to read:

"6.22.9.2. Verification of compliance with AFS automatic operating requirements

6.22.9.2.1. The applicant shall demonstrate with a concise description or other means acceptable to the Authority responsible for type approval:

- (a) the correspondence of the AFS control signals
 - to the description required in paragraph 3.2.6. of this Regulation and
 - to the respective AFS control signals specified in the AFS type approval documents, and,
- (b) compliance with the automatic operating requirements according to paragraphs 6.22.7.4.1. through 6.22.7.4.5. above.

6.22.9.2.2. **To verify, whether, according to the paragraph 6.22.7.4., the AFS automatic operation does not cause any discomfort, the technical service shall perform a test drive which comprises any situation relevant to the system control on the basis of the applicants description; it shall be notified whether all modes are activated, performing and de-activated according to the applicant's description; obvious malfunctioning, if any, to be contested (e.g. excessive angular movement or flicker).**"

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B. JUSTIFICATION

The provisions of paragraph 6.22.9.2.1. cover all that can be done by paperwork (and other means) to prove that the AFS installed on the vehicle complies to any concise threshold provisions such as time, angle, speed, ambient illumination, etc.

In order to allow also a judgement on those properties of the AFS on the vehicle, being required by paragraph 6.22.7.4. (preamble) and not directly accessible to measurements, provisions for testing on plausibility and absence of discomfort should follow in paragraph 6.22.9.2.2. In addition, a limited practical verification of the above-mentioned provisions of the paragraphs 6.22.7.4.1. through 6.22.7.4.5. should be part of this testing.

The guidelines concerning test comprehensiveness and the mandatory notification of the test results assure a certain standard of such testing and grant sufficient input for the files.
