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INLAND TRANSPORT COMMITTEE

Working Party on the Construction of Vehicles

Working Party on Brakes and Running Gear (GRRF)
(Forty-fourth session, 21-23 September 1998,
agenda item 1.1.)

PROPOSAL FOR DRAFT AMENDMENTS TO REGULATION No. 13
(Braking)

Transmitted by the Expert from the International Organization of
Motor Vehicles Manufacturers (OICA)

Note: The text reproduced below is the result of the EBS/II meeting. The expert from OICA was invited to transmit this proposal for amendment of Regulation No. 13 in order to allow for a particular design of braking system (TRANS/WP.29/GRRF/43 para. 7).

Note: This document is distributed to the Experts on Brakes and Running Gear only.

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A. PROPOSAL

Insert a new paragraph 5.2.1.2.7.3., to read:

"5.2.1.2.7.3. If the service braking force and transmission depend exclusively on the use of an energy reserve, one energy reserve for the transmission is deemed to be sufficient, provided that the prescribed secondary braking is ensured by the action of the driver's muscular energy acting on the service brake control and the requirements of paragraph 5.2.1.6. are met."

Paragraph 5.2.1.6., amend to read:

"5.2.1.6. The requirements of paragraphs 5.2.1.2., 5.2.1.4., 5.2.1.5. and 5.2.1.2.7.3. of this Regulation must be met without the use of any automatic device of a kind such that its ineffectiveness might pass unnoticed through the fact that parts normally in a position of rest come into action only in the event of failure in the braking system."

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B. JUSTIFICATION

Paragraph 5.2.1.2.7.1., covers the case where the driver's braking effort is assisted by an energy reserve and establishes the requirement for a single energy reserve where secondary braking performance can be achieved by muscular energy only.

Paragraph 5.2.1.2.7.2., requires dual energy reserves where there is total dependence on stored energy controlled by the driver to achieve service braking and there is no direct muscular action capable of producing any braking force in any circumstance.

Currently there is no ruling covering the case where normal service braking is dependent on the control of the energy reserve but in the event of a failure of the energy reserve or of its control operation, muscular energy alone is able to provide sufficient force to achieve secondary braking. In such braking systems, the principle established in paragraph 5.2.1.2.7.1. of a single energy reserve, should apply.

The proposed text of this new paragraph 5.2.1.2.7.3. serves to provide such a ruling. Existing paragraph 5.2.1.6. is amended to include reference to this new paragraph.
