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Working Party on Brakes and Running Gear (GRRF)
(Fifty-third session, 3-7 February 2003,
agenda item 1.1.)

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

Transmitted by the Expert from Germany

Note: The text reproduced below was prepared by the expert from Germany in order to make it clear that, under certain conditions, it is permitted to provide an additional power supply to that available from the ISO 7638 connection.

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

A. PROPOSAL

Add a new paragraph 5.2.2.17.2., to read:

"5.2.2.17.2. It is not prohibited to provide an additional power supply to that available from the ISO 7638 connector defined above. However, when such a power supply is provided the operation of the braking system shall not be adversely affected by the connection of the additional power supply in normal and failed modes."

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B. JUSTIFICATION

The current prescriptions of Regulation No. 13 require that in trailers with ABS, a braking system with electric control transmission or electric control line is powered from the towing vehicle by an interface conforming to ISO 7638. While an alternative means of powering is no longer permitted, providing an additional power supply to that available from the ISO 7638 connection is not prohibited. It is not intended, that when an additional power supply is made available, that this be used as an alternative to the ISO 7638 connection, but rather a supplementary supply that would be available in the event of a failure in the main supply. Providing such a back up enhances the failure modes of the systems, in particular those where both load sensing and ABS functions are dependent upon electrical energy. However, when an additional supply is available, it is essential that interconnection of the respective energy sources and grounds is realized in a manner that does not reduce the effectiveness of the braking system in normal and failed modes.

The above proposal makes it clear that it is permitted to install an additional power supply and the provisions proposed would ensure that its presence does not impede the operation of the braking system in normal and failed modes.
