PART 9 OF THE RESTRUCTURED ADR

Note by the secretariat

The secretariat has received the following request from OICA. The proposal of OICA concerns section 9.2.3 of Part 9.

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As offered by OICA at GRRF-48, please find attached the new amended text for Annex 5 to R13 (ADR vehicles) as discussed within GRRF. You will note the deletion of paragraph 2.3.1.6, making optional the fitment of an endurance braking on trailers.

As a separate item, please note that paragraph 1.8.1.3 of Annex 4 to ECE R13 should be amended as well as follows: "1.8.1.3 - Certain vehicles subject to the ADR (see Annex 5)". This amendment is necessary to take into account the fact that ADR is currently restructured.
ECONOMIC COMMISSION FOR EUROPE

INLAND TRANSPORT COMMITTEE

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

Working Party on Brakes and Running Gear (GRRF)
(Forty-eighth session, 11-13 September 2000, agenda item 1.1.)

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

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

Note: The text reproduced below was prepared by the expert from OICA in order to adapt annex 5 of the Regulation to the prescriptions of European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR).

Note: This document is distributed to the Experts on Brakes and Running Gear only.
ADDitional provisions applicable to certain vehicles
as specified in the adr

1. Scope

This Annex applies to certain vehicles for which the European Agreement
concerning the International Carriage of Dangerous Goods
by Road (ADR) contains specific requirements as concerns
antilock and endurance braking performance.

2. Requirements

2.1 General provisions

Power-driven vehicles and trailers intended for use as transport units
for dangerous goods shall fulfil all relevant technical
requirements of this Regulation. In addition, the
following technical provisions shall apply as
appropriate.

Antilock braking system of trailers

2.2.1 Trailers of category O₄ shall be equipped with category A
antilock systems as defined in annex 13 of this
Regulation.

2.3 Endurance braking system

2.3.1 Power-driven vehicles having a maximum mass exceeding 16 tonnes, or authorized
to tow a trailer of category O₄ shall be fitted with an endurance
braking system according to paragraph 2.14. of this
Regulation which complies with the following
requirements:

2.3.1.1. The endurance braking control configurations shall be
from a type described in paragraphs 2.14.2.1. to
2.14.2.3. of this Regulation.

2.3.1.2. In the case of an electrical failure of the antilock
system, integrated or combined endurance braking systems
shall be switched off automatically.

2.3.1.3. The effectiveness of the endurance braking system shall
be controlled by the antilock braking system such that
the axle(s) braked by the endurance braking system cannot
be locked by that system at speeds above 15 km/h.
However, this requirement shall not apply to that part of
the braking system constituted by the natural engine
braking.
2.3.1.4 The endurance braking system shall comprise several stages of effectiveness, including a low stage appropriate for the unladen condition. Where the endurance braking system of a power-driven vehicle is constituted by its engine, the different gear ratios shall be considered to provide the different stages of effectiveness.

2.3.1.5 The performance of the endurance braking system must be such that it fulfils the requirements of paragraph 1.8. of annex 4 to this Regulation (Type II A test), with a laden vehicle mass comprising the laden mass of the motor vehicle and its authorized maximum towed mass but not exceeding a total of 44 tonnes.

2.3.1.6 If the power-driven vehicle does not fulfill the performance requirements for the endurance braking system as defined in paragraph 2.3.1.5. above, it shall at least fulfill the requirements of paragraphs 2.3.1.1. to 2.3.1.4. In this case the endurance braking system performance shall fulfill the requirements of the Type IIA test as defined in paragraph 1.8. of annex 4. In addition the vehicle shall be marked that it can only be operated with a trailer equipped with an endurance brake, the control of which shall be in the motor vehicle.

2.3.2 If a trailer is equipped with an endurance braking system it shall fulfill the requirements of paragraphs 2.3.1.1. to 2.3.1.4. above as appropriate. and shall fulfill the following performance requirements:

the performance of the trailer endurance braking system shall be such that it fulfills the requirements of paragraph 1.8. of annex 4 to this Regulation (Type IIA test) with a performance relative to the maximum permitted axle mass of the trailer. In addition the trailer shall be marked that it is equipped with an endurance brake.”