

**ECONOMIC COMMISSION FOR EUROPE
INLAND TRANSPORT COMMITTEE**

**Working Party on the Transport
of Dangerous Goods**

(Sixty-ninth session,
Geneva, 13-17 November 2000)

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.

Distr.
GENERAL

TRANS/WP.29/GRRF/2000/27/Rev.1
~~3 July 2000~~
Original: ENGLISH

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.

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(Annex 5, amend to read:

"Annex 5

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 fulfil the performance requirements for the endurance braking system as defined in paragraph 2.3.1.5. above, it shall at least fulfil the requirements of paragraphs 2.3.1.1. to 2.3.1.4. In this case the endurance braking system performance shall fulfil 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 fulfil the requirements of paragraphs 2.3.1.1. to 2.3.1.4. above as appropriate. ~~and shall fulfil the following performance requirements:~~
- ~~the performance of the trailer endurance braking system shall be such that it fulfils 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."~~
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