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Meeting of Experts on Brakes and Running Gear
(Thirty-fifth session, 12-14 September 1994,
agenda item 2.1)

**PROPOSAL FOR DRAFT AMENDMENTS (09 SERIES) 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 that it may be introduced into the Regulation "Type-III test" for O₄ category trailers, and was distributed without a symbol (Informal document No. 7) during the thirty-fourth session of the Meeting of Experts (TRANS/WP.29/GRRF/34, para. 16). In the preparation of this proposal, account was taken of the considerations by the Meeting of Experts of documents TRANS/SC1/WP29/GRRF/R.188 and Amend.1 and Add.1, of the measurement results (TRANS/SC.1/WP.29/GRRF/32, para. 25) and of the discussions during the thirty-third session (TRANS/SC.1/WP.29/GRRF/33, paras. 24 and 25). The paragraph numbers refer to the draft Revision 3 of Regulation No. 13 (documents TRANS/SC1/WP29/R.564 and Corr.1, TRANS/SC1/WP29/GRRF/29, annex 4, and TRANS/SC1/WP29/GRRF/30, annex 2).

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

A. Introduction

For the introduction of the braking test Type-III for trailers of category O₄ (full trailers with a total mass exceeding 10 t and centre-axle trailers and semitrailers with an axle-load exceeding 10 t), combined with a supporting measure for power driven vehicles of category N₃, which are authorized to tow such trailers, the following amendments to Regulation No. 13 are proposed:

B. Proposal**Annex 2,**

Item 13, amend to read:

"13. Mass of vehicle when tested:

	Unladen (kg)	Laden (kg)
king pin/supporting load <u>2/</u>		
axle No. 1		
axle No. 2		
axle No. 3		
axle No. 4		
Total		

2/ In the case of a semi-trailer or a centre-axle trailer, enter the mass corresponding to the load on the coupling device."

Insert a new item 14.5., by extending table 14 to cover documentation of the Type-III test:

"14.5. Type-III tests 6/"

Footnote 4/ to item 14.3., amend to read:

"4/ Applies only to vehicles of categories O₂ and O₃"

Insert a new footnote 6/ to item 14.5., to read:

"6/ Applies only to vehicles of category O₄"

Items 14.5. to 14.10. (former), renumber as items 14.6. to 14.11.

Annex 4,

Paragraph 1.5.2.1., amend to read:

"1.5.2.1. The service brakes of trailers of categories O₂ and O₃ must be tested"

Paragraph 1.6.1., amend to read:

"1.6.1. Laden power-driven vehicles must be tested ... gear engaged (*) and the retarder ... by the manufacturer."

(*) Note: The text placed in brackets and reading "(if the vehicle is power-driven)" is being deleted.

Paragraph 1.6.3, amend to read:

"1.6.3. At the end ... may be different). This hot performance must give a stopping distance not exceeding ..."

(Note): The last section of paragraph 1.6.3. reading "However ... wheel load." has to be deleted.)

Paragraph 1.6.4., amend to read:

"1.6.4. Passenger vehicles having more than eight"

Insert a new paragraph 1.7., to read:

"1.7. Type-III test (fade test for vehicles of category O₄)

1.7.1. Track Test

For the road test the conditions should be as follows:

number of brake applications:	20
duration of a braking cycle:	60 s
initial speed at the beginning of braking:	60 km/h
braking applications:	corresponding to a trailer deceleration of 3 m/s ²

The braking rate of a trailer is calculated according to the formula given in paragraph 1.4.5.3. of Regulation No. 13, annex 4: