



Economic and Social Council

Distr.: General
28 September 2011

Original: English

Economic Commission for Europe

Inland Transport Committee

World Forum for Harmonization of Vehicle Regulations

155th session

Geneva, 15–18 November 2011

Item 4.16.1 of the provisional agenda

1958 Agreement – Consideration of amendments to draft Regulations submitted by GRRF

Proposal for amendments to the draft 01 series of amendments to the draft Regulation on Advanced Emergency Braking Systems (AEBS) *

Submitted by the Working Party on Brakes and Running Gear **

The text reproduced below was adopted by the Working Party on Brakes and Running Gear (GRRF) at its seventy-first session in order to amend ECE/TRANS/WP.29/2011/93. It is based on GRRF-71-27-Rev.1 and is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to the Administrative Committee (AC.1) for consideration. Although GRRF solved the majority of open issues in square brackets in ECE/TRANS/WP.29/2011/93, WP.29 and AC.1 still have to decide whether they wish to adopt the text marked in square brackets in paragraphs 5.1.1. and 12.2. of this document.

* This document has been submitted late in order to include information on the latest progress in this work.

** In accordance with the programme of work of the Inland Transport Committee for 2010–2014 (ECE/TRANS/208, para. 106 and ECE/TRANS/2010/8, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

Paragraph 1., amend to read (footnote 1 remains unchanged):

"1. Scope and purpose

This Regulation applies to the approval of vehicles of category M₂, N₂, M₃ and N₃¹ with regard to an on-board system to avoid or mitigate the severity of a rear-end in lane collision."

[Paragraph 5.1.1., amend to read:

"5.1.1. Any vehicle equipped with an AEBS complying with the definition of paragraph 2.1. shall meet the performance requirements contained in paragraphs 5.1. to 5.6.2. of this Regulation and shall be equipped with an anti-lock braking function in accordance with the performance requirements of Annex 13 of Regulation No.13."] *[This amendment is necessary only if the alternative drafting for paragraph 5.1.1. in ECE/TRANS/WP.29/2011/92/Amend.1 is adopted]*

Paragraph 12., amend to read:

"12. Transitional provisions

- 12.1. As from the official date of entry into force of the 01 series of amendments, no Contracting Party applying the 01 series of amendments to this Regulation, shall refuse to grant type Approvals in accordance with the 01 series of amendments of this Regulation.
- 12.2. As from the date of into force of the 01 series of amendments to this Regulation, Contracting Parties applying this Regulation may continue granting type approvals and extensions of type approvals to the 00 series of amendments to this Regulation.

[In accordance with Article 12 of the 1958 Agreement, the 00 series of amendments may be used as an alternative to the 01 series. Contracting Parties shall notify to the Secretariat General which alternative they apply. In the absence of notification of Contracting Parties to the Secretariat General, Contracting Parties will be considered to apply the 01 series.]
- 12.3. As from the date of entry into force of the 01 series of amendments, no Contracting Party applying this Regulation shall refuse national or regional type approval of a vehicle type approved to the 01 series of amendments to this Regulation.
- 12.4. Until 1 November 2016, no Contracting Party applying this Regulation shall refuse national or regional type approval of a vehicle type approved to the 00 series of amendments to this Regulation.
- 12.5. As from 1 November 2016, Contracting Parties applying the 01 series of amendments to this Regulation shall not be obliged to accept, for the purpose of national or regional type approval, a vehicle type approved to the 00 series of amendments to this Regulation."

Annex 3, amend the table to read:

"

A	B	C	D	E	F	G	H	
	Stationary target			Moving target				
	Timing of warning modes		Speed reduction (ref. paragraph 6.4.4.)	Timing of warning modes		Speed reduction (ref. paragraph 6.5.3.)	Target speed (ref. paragraph 6.5.1.)	
	At least 1 haptic or acoustic (ref. paragraph 6.4.2.1.)	At least 2 (ref. paragraph 6.4.2.2.)		At least 1 haptic or acoustic (ref. paragraph 6.5.2.1.)	At least 2 (ref. paragraph 6.5.2.2.)			
$M_3^1, N_2 > 8t$ and N_3	Not later than 1.4 s. before the start of emergency braking phase	Not later than 0.8 s. before the start of emergency braking phase	Not less than 20 km/h	Not later than 1.4 s. before the start of emergency braking phase	Not later than 0.8 s. before the start of emergency braking phase	No impact	12 ± 2 km/h	1
$N_2 \leq 8 t^2$ and M_2^2	The pass/fail values for the warning and activation test requirements in Cells B2 to H2 applicable to vehicles of category $N_2 \leq 8$ tons and of category M_2 will be defined by GRRF and adopted by WP.29 at least 36 months before 1 November 2016. Until such values are adopted, Contracting Parties shall refrain from issuing type-approvals for these vehicles in accordance with the 01 series of amendments to the AEBS Regulation.							2

¹ Vehicles of category M_3 with hydraulic braking system are subject to the requirements of row 2

² Vehicles with pneumatic braking systems are subject to the requirements of row 1"