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Economic Commission for Europe**Inland Transport Committee****World Forum for Harmonization of Vehicle Regulations****Working Party on Brakes and Running Gear****Seventieth session**

Geneva, 12–13 May 2011

Item 2 of the provisional agenda

Advanced Emergency Braking Systems**Proposal for 01 Series of amendments to the Draft Regulation
on advanced emergency braking systems****Submitted by the Informal group on Advanced Emergency Braking
and Lane Departure Warning Systems ***

The text reproduced below was prepared by the Informal group on Advanced Emergency Braking and Lane Departure Warning Systems (AEBS/LDWS) to propose a draft 01 series of amendment to the AEBS regulation, following the "1-Regulation" approach. The provisions subject to decision are indicated between [square brackets].

* 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.

I. Proposal

Insert a new paragraph 12., to read:

[12. Transitional provisions

- [12.2. Contracting Parties applying **[the 00 Series of Amendments to]** this Regulation shall not be prohibited from granting UNECE type approvals and extensions of UNECE type approvals to the 00 series of amendments to this Regulation.]
- [12.3. As from the official 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. As from the official date of entry into force of the 01 series of amendments, no Contracting Party applying this Regulation shall refuse first national or regional registration of a vehicle which complies with the requirements of the 01 series of amendments to this Regulation.]~~
- [12.5. Until [1 November 2016 / **1 November 2012**], 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.]
- [12.6. Until [1 November **2020** / **1 November 2018**] [1 November **2020** / **1 November 2014**], no Contracting Party applying this Regulation shall refuse first national or regional registration of a vehicle which complies with the requirements of the 00 series of amendments to this Regulation.]]

Annex 3, the table, replace by the table below:

“Warning and activation test requirements – pass/fail values

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 and N ₃ 1/, [3/]	Not later than 1.4 s. before start of emergency braking phase	Not later than 0.8 s. before start of emergency braking phase	Not less than 20 km/h	Not later than [1.4]s. before start of emergency braking phase	Not later than 0.8 s. before start of emergency braking phase	No impact	12 ± 2 km/h	1
N ₂ >8 t [3/]	Not later than 1.4 s. before start of emergency braking phase	Not later than 0.8 s. before start of emergency braking phase	Not less than 20 km/h	Not later than [1.4] s. before start of emergency braking phase	Not later than 0.8 s. before start of emergency braking phase	No impact	12 ± 2 km/h	2
N ₂ ≤ 8 t and M ₂ 2/, 4/	[No restriction regarding timing and warning modes ^a] or [Blank]	[No restriction regarding timing and warning modes ^a] or [Blank]	[0 km/h ^b] or [Blank]	[No time restriction] or [Blank]	[Not later than 1.4 s. before start of emergency braking phase ^c] or [Blank]	[0 km/h ^d] or [Blank]	[12 ± 2 km/h] or [Blank]	3

- 1/ Vehicles of category M3 with hydraulic braking system are subject to the requirements of row 3.
- 2/ Vehicles with pneumatic braking system are subject to the requirements of row 1
- [3/ applicable only to vehicles with pneumatic rear axle suspension]
- 4/ Reservation from J for light M2/N2 vehicles
- a For zero speed reduction, start of emergency braking phase is time to collision. In this case, paragraph 6.4.3. does not apply.
- b Speed reduction optional.
- c For zero speed reduction, start of emergency braking phase is time to collision.
- d In this case, paragraph 6.5.3. does not apply. Speed reduction optional.”