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Subject:	ANNEX to the COMMISSION REGULATION (EU) No .../.. of XXX amending Regulation (EU) No 347/2012 implementing Regulation (EC) No 661/2009 of the European Parliament and of the Council with respect to type-approval requirements for certain categories of motor vehicles with regard to advanced emergency braking systems

Delegations will find attached document D037052/01 ANNEX 1.

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Brussels, **XXX**
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amending Regulation (EU) No 347/2012 implementing Regulation (EC) No 661/2009 of the European Parliament and of the Council with respect to type-approval requirements for certain categories of motor vehicles with regard to advanced emergency braking systems

Annex II of Regulation (EU) No 347/2012 is amended as follows:

(1) Point 2.4.2.1. is replaced by the following:

"2.4.2.1. a) For approval level 1: at least one haptic or acoustic warning mode shall be provided not later than the values specified in Column B of the table in Appendix 1.

b) For approval level 2: at least one warning mode shall be provided not later than the values specified in Column B of the table in Appendix 2, as follows:

in the case of vehicle categories referred to in Row 1 of the table in Appendix 2: the warning shall be haptic or acoustic, and

in the case of vehicle categories referred to in Row 2 of the table in Appendix 2: the warning shall be haptic, acoustic or optical."

(2) Point 2.4.2.2. is replaced by the following:

"2.4.2.2. At least two warning modes shall be provided no later than the values specified in:

For approval level 1: Column C of the table in Appendix 1.

For approval level 2: Column C of the table in Appendix 2."

(3) The last sentence in points 2.5.2.1. and 2.5.2.2. is deleted.

(4) Appendix 2 is replaced by the following:

"Appendix 2

Approval level 2: warning and activation test requirements – pass/fail values

Row	A	B	C	D	E	F	G	H
0	Vehicle category	Stationary target			Moving target			
		Timing of warning modes		Speed reduction of subject vehicle (ref. point 2.4.5.)	Timing of warning modes		Speed reduction of subject vehicle (ref. point 2.5.3.)	Target speed (ref. point 2.5.1.)
		At least 1 (ref. point 2.4.2.1.)	At least 2 (ref. point 2.4.2.2.)		At least 1 (ref. point 2.5.2.1.)	At least 2 (ref. point 2.5.2.2.)		
1	M ₃ ⁽¹⁾ , N ₃ and N ₂ >8t	Not later than 1.4 s. before the start of the emergency braking phase	Not later than 0.8 s. before the start of the emergency braking phase	Not less than 20 km/h	Not later than 1.4 s. before the start of the emergency braking phase	Not later than 0.8 s. before the start of the emergency braking phase	Subject vehicle shall not impact with the moving target	12 ± 2 km/h
2	N ₂ ≤8t ⁽²⁾⁽⁴⁾ and M ₂ ⁽²⁾⁽⁴⁾	Not later than 0.8 s. before the start of the emergency braking phase	Before the start of the emergency braking phase ⁽³⁾	Not less than 10 km/h	Not later than 0.8 s. before the start of the emergency braking phase	Before the start of the emergency braking phase ⁽³⁾	Subject vehicle shall not impact with the moving target	67 ± 2 km/h ⁽⁵⁾

⁽¹⁾ Vehicles of category M₃ with hydraulic braking system are subject to the requirements of row 2.

⁽²⁾ Vehicles with pneumatic braking system are subject to the requirements of row 1.

⁽³⁾ Values shall be specified by the vehicle manufacturer at the time of type-approval (see Annex I, Part 2, Addendum, point 4.4).

⁽⁴⁾ Manufacturers of vehicle categories covered by row 2 may elect to gain vehicle type-approval in accordance with the values specified in row 1; in this instance compliance with all the values specified in row 1 shall be demonstrated.

⁽⁵⁾ The values for the target speed in cell H2 shall be reviewed before 1st November 2021."