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World Forum for Harmonization of Vehicle Regulations

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Item 4.7.6. of the provisional agenda

1958 Agreement:

Consideration of draft amendments to existing

UN Regulations submitted by GRPE

Proposal for Supplement 1 to the 08 series of amendments to UN Regulation No. 83 (Emissions of M1 and N1 vehicles)

Submitted by the Working Party on Pollution and Energy*

The text reproduced below was adopted by the Working Party on Pollution and Energy (GRPE) at its ninetieth session (ECE/TRANS/WP.29/GRPE/90, para. 18). It is based on ECE/TRANS/WP.29/GRPE/2024/8, GRPE-90-08 and during the session as amended by Annex VII of the session report. It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to the Administrative Committee (AC.1) for consideration at their June 2024 sessions.

* In accordance with the programme of work of the Inland Transport Committee for 2024 as outlined in proposed programme budget for 2024 (A/78/6 (Sect. 20), table 20.5), the World Forum will develop, harmonize and update UN Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.



Paragraph 2.1., amend to read:

"2.1. "Vehicle type" means a group of vehicles that fulfil the requirements for a vehicle type with regard to emissions in accordance with paragraph 3.0.1. of UN Regulation No. 154."

paragraph 2.37., amend to read:

"2.37. "Portable emissions measurement system" (PEMS) means a portable emissions measurement system meeting the requirements specified in Annex 4 of UN Regulation No. 168."

Paragraph 3.4.10., amend to read:

"3.4.10. Vehicles of category M₁ or N₁ shall be approved with emission characters EA, EB or EC as specified in Table A3/1, Annex 3, taking into account the utility factors determined in accordance with the values specified in Table A8.App5/1 of Appendix 5 to Annex B8 to UN Regulation No. 154. "

Paragraph 7.1., amend to read:

"7.1. Extensions for idling emissions (Type 2 test)"

Paragraph 7.2.2.2., amend to read:

"7.2.2.2. To determine whether type approval can be extended, for each of the transmission ratios used in the Type 6 test, the proportion,

$$(E) = |(V_2 - V_1)/V_1|$$

shall be determined where, at an engine speed of 1,000 min⁻¹, V₁ is the speed of the vehicle-type approved and V₂ is the speed of the vehicle type for which extension of the approval is requested."

Paragraph 12., amend to read:

"12. Transitional provisions

12.1. General provisions

12.1.1. As from the official date of entry into force of the 08 series of amendments, no Contracting Party applying this Regulation shall refuse to grant approval under this Regulation as amended by the 08 series of amendments.

12.2. Type approvals

12.2.1. As from 1 September 2023, Contracting Parties applying this Regulation shall grant an approval to new types of vehicle only if they comply with the requirements for vehicles approved under the character EA as defined in Table A3/1, Annex 3 of this Regulation, as amended by the 08 series of amendments.

12.2.2. As from 1 January 2025, Contracting Parties applying this Regulation shall grant an approval to new types of vehicle only if they comply with the requirements for vehicles approved under the character EB as defined in Table A3/1, Annex 3 of this Regulation, as amended by the 08 series of amendments.

12.2.3. As from 1 January 2027, Contracting Parties applying this Regulation shall grant an approval to new types of vehicle only if they comply with the requirements for vehicles approved under the character EC as defined in Table A3/1, Annex 3 of this Regulation, as amended by the 08 series of amendments."

Annex 1, paragraph (a) to Appendix 3a, amend to read:

"(a) a declaration of the manufacturer that the vehicle does not contain any defeat device not covered by one of the exceptions in paragraph 5.1.7. of this Regulation;"

Annex 1, item (i) to paragraph (d) to Appendix 3a, amend to read:

"(i) why any of the exception clauses from the defeat device prohibition in paragraph 5.1.7. of this Regulation apply;"

Annex 1, paragraph (f) to Appendix 3a, amend to read:

"(f) a description of the hierarchical relations among the AES (i.e., when more than one AES can be active concurrently, an indication of which AES is primary in responding, the method by which strategies interact, including data flow diagrams and decision logic and how does the hierarchy assure emissions from all AES are controlled to the lowest practical level);"

Annex 1, item "Versioning table" of Table A1/1 to Appendix 3a, amend to read:

"...

Versioning table	Content of each version modifications and which part is modified
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..."

Annex 3, Table A3/1, amend to read:

"Table A3/1

Letters with reference to emission standard, vehicle category and engine type

Character	Emission standard	Vehicle category	Engine type	AES Flag ⁽¹⁾	OBD	Comply with...	
						UN Regulation No. 154:	Others:
EA	Euro 6e	M ₁ , M ₂ N ₁ , N ₂ ⁽³⁾	PI, CI	No	OBD thresholds ⁽²⁾	Level 1A requirements of the 02 series of amendments or 03 series of amendments taking into account the utility factor based on d_{nea} determined in accordance with the values specified in Table A8.App5/1 of Appendix 5 to Annex B8 to UN Regulation No. 154	(a) The requirements stated in Part III of UN Regulation No. 24 (if applicable) (b) The requirements of UN Regulation No. 85 (c) The requirements of UN Regulation No. 168 on RDE
EB	Euro 6e-bis			Yes		Level 1A requirements of the 02 series of amendments or 03 series of amendments taking into account the utility factor based on d_{neb} determined in accordance with the values specified in Table A8.App5/1 of Appendix 5 to Annex B8 to UN Regulation No. 154	
EC	Euro 6e-bis-FCM			Yes		Level 1A requirements of the 02 series of amendments or 03 series of amendments taking into account the utility factor based on d_{nec} determined in accordance with the values specified in Table A8.App5/1 of Appendix 5 to Annex B8 to UN Regulation No. 154 ⁽⁴⁾	

Key:

(1): AES Flag: See paragraph 3.4.2. of this Regulation, as amended by the 08 series of amendments.

(2): See Table 4A in paragraph 6.8. of UN Regulation No. 154.

(3): UN Regulation No. 168 on RDE is not applicable for vehicles of category N₂.

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