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World Forum for Harmonization of Vehicle Regulations

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Item 4.6.1 of the provisional agenda

1958 Agreement:

Consideration of draft amendments to existing

UN Regulations submitted by GRPE

Supplement 11 to the 06 series of amendments to UN Regulation No. 49

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 ninety-second session (ECE/TRANS/WP.29/GRPE/92, para. 48). It is based on ECE/TRANS/WP.29/GRPE/2025/13. 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 November 2025 sessions.

* In accordance with the programme of work of the Inland Transport Committee for 2025 as outlined in proposed programme budget for 2025 (A/79/6 (Sect. 20), table 20.6), 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 1., amend to read:

"1. Scope

1.1. This Regulation shall apply to motor vehicles of categories M₁, M₂, N₁ and N₂ with a reference mass exceeding 2,610 kg and to all motor vehicles of categories M₃ and N₃.¹

At the request of the manufacturer, the type approval of a completed vehicle given under this Regulation shall be extended to its incomplete vehicle with a reference mass below 2,610 kg. Type approvals shall be extended if the manufacturer can demonstrate that all bodywork combinations expected to be built onto the incomplete vehicle increase the reference mass of the vehicle to above 2,610 kg.

At the request of the manufacturer, the type approval of a vehicle granted under this Regulation shall be extended to its variants and versions with a reference mass above 2,380 kg provided that it also meets the requirements relating to the measurement of greenhouse gas emissions and fuel consumption in accordance with Appendix 1 to Annex 12 of the 06 series of amendments to this Regulation.

The following do not need to be approved according to this Regulation: engines mounted in vehicles of up to 2,840 kg reference mass to which an approval to Regulation No. 83 has been granted.

Table A
Applicability

Vehicle category ¹	Positive-ignition engines			Dual-fuel engines	Compression-ignition engines	
	Petrol	NG ^a	LPG ^b		Diesel	Ethanol
M ₁	R49 or R83 ^c	R49 or R83 ^c	R49 or R83 ^c	R49 ^d	R49 or R83 ^c	R49 or R83 ^c
M ₂	R49 or R83 ^c	R49 or R83 ^c	R49 or R83 ^c		R49 or R83 ^c	R49 or R83 ^c
M ₃	R49	R49	R49		R49	R49
N ₁	R49 or R83 ^c	R49 or R83 ^c	R49 or R83 ^c		R49 or R83 ^c	R49 or R83 ^c
N ₂	R49 or R83 ^c	R49 or R83 ^c	R49 or R83 ^c		R49 or R83 ^c	R49 or R83 ^c
N ₃	R49	R49	R49		R49	R49

¹ As defined in the Consolidated Resolution on the Construction of Vehicles (R.E.3), document ECE/TRANS/WP.29/78/Rev.3, para.2.

^a Natural Gas.

^b Liquefied Petroleum Gas.

^c Regulation No. 83 applies for vehicles with a reference mass ≤ 2,610 kg and at the manufacturer's request for vehicles with a reference mass ≤ 2,840 kg.

^d The provisions related to dual-fuel engines and vehicles contained into Regulation No. 49 only apply for vehicles and engines within the scope of the revision 5 of that Regulation.

Table B
Requirements

	Positive-ignition engines			Dual-fuel engines ^c	Compression-ignition engines	
	Petrol	NG	LPG		Diesel	Ethanol
Gaseous pollutants	-	Yes	Yes	Yes	Yes	Yes
Particulates	-	Yes ^a	Yes ^a	Yes	Yes	Yes
Smoke	-	-	-	Yes	Yes	Yes
Durability	-	Yes	Yes	Yes	Yes	Yes
In-service-conformity	-	Yes	Yes	Yes	Yes	Yes
OBD	-	Yes ^b	Yes ^b	Yes	Yes	Yes

^a Only applicable to stage C in Table 2 of paragraph 5.2.1.

^b Application dates according to paragraph 5.4.2.

^c According to the requirements of Annex 11.

1.2. Equivalent approvals

The following do not need to be approved according to this Regulation, if they are part of a vehicle approved according to Regulation No. 83:

- (a) Compression-ignition engines to be mounted in vehicles of categories N₁, N₂ and M₂¹ fuelled with diesel;
- (b) Positive-ignition engines fuelled with Natural Gas (NG) or Liquefied Petroleum gas (LPG) to be mounted in vehicles of category N₁.¹
- (c) Vehicles of categories N₁, N₂ and M₂¹ fitted with compression - ignition engines fuelled with diesel and vehicles of category N₁¹ fitted with positive-ignition engines fuelled with NG or LPG.

1.2.1. Equivalent approval as set out in paragraph 1.2. shall not be granted in the case of dual-fuel engines and vehicles (see definitions in paragraph 2. below). "
