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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 10 to the 01 series of amendments to UN Regulation No. 101 (CO₂ emission/fuel consumption)

Submitted by the Working Party on Working Party on Pollution and Energy*

The text reproduced below was adopted by the Working Party on Pollution and Energy (GRPE) at its eighty-second session (ECE/TRANS/WP.29/GRPE/82) and is based on ECE/TRANS/WP.29/GRPE/2021/4 and GRPE-82-17 as amended by Annex IV of the session report. It is a proposal for Supplement 10 to the 01 series of amendments to UN Regulation No. 101 (CO₂ emission/fuel consumption). It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and Administrative Committee 1 (A.C.1) for consideration at its June 2021 sessions.

* In accordance with the programme of work of the Inland Transport Committee for 2021 as outlined in proposed programme budget for 2021 (A/75/6 (part V sect. 20) para 20.51), 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.



Annex 7 – Appendix 2

Paragraph 1., amend to read:

"1. Introduction

The purpose of this appendix is to provide the road load power calculation method that may be used, at the choice of manufacturer, when the vehicle road load has been determined according to WLTP procedures as defined in UN GTR No. 15."

Paragraph 2.1., amend to read:

"2.1. WLTP Road Load calculation of the vehicle

The WLTP Road Load of the vehicle shall be determined according to UN GTR No. 15 Annex 4 or in case the vehicle is part of an interpolation family, according to Annex 7 point 3.2.3.2.2. "Road Load calculation for an individual vehicle" considering as input parameters of the individual vehicle:

- (a) The Test Mass of the vehicle,¹ fitted with its standard equipment;¹
- (b) The RRC value of the applicable tyre energy class according to Table A4/2 of UN GTR No. 15 Annex 4 or, if the tyres on the front and rear axles belong to different energy efficiency classes, the weighted mean using the equation in paragraph 3.2.3.2.2.3. of Annex 7 to UN GTR No. 15;
- (c) The aerodynamic drag of the vehicle fitted with its standard equipment.¹"

Paragraph 2.2.4. subparagraph (a) (iv), amend to read:

"(iv) Effect of different tyre tread depth:

$$F_{0n} = F_{0n}^3 - TTD$$

Where the factors *TTD* in the formula are as defined in point 2.2.2."

¹ As defined in UN GTR No. 15