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Items 4.17.2. and 16.2. of the provisional agenda

1958 Agreement:

Proposals for amendments to Mutual Resolutions

Consideration of amendments to Mutual Resolutions

Nos. 1 (M.R.1) and 2 (M.R.2)

Proposal for an amendment to Mutual Resolution No. 2 (M.R.2)

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 eighty-third session (ECE/TRANS/WP.29/GRPE/83, para. 52). It is based on ECE/TRANS/WP.29/GRPE/2021/19. It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to the Administrative Committees (AC.1 and AC.3) for consideration at their November 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.



Section B

Paragraph 1., amend to read:

- "1. "Powertrain" means the total combination in a vehicle, of propulsion energy storage system(s), propulsion energy converter(s); and the drivetrain(s), providing the mechanical energy at the wheels for the purpose of vehicle propulsion, plus peripheral devices."

Paragraph 1.1., amend to read:

- "1.1. "Propulsion energy storage system" means an energy storage system of the powertrain which is not a peripheral device, whose output energy is used directly or indirectly for the purpose of vehicle propulsion."

Paragraph 1.2., amend to read:

- "1.2. "Propulsion energy converter" means an energy converter of the powertrain which is not a peripheral device, whose output energy is used directly or indirectly for the purpose of vehicle propulsion."

Paragraph 1.2.3., amend to read:

- "1.2.3. "Fuel cell" means an energy converter transforming chemical energy (input) into electrical energy (output) or vice versa."

Add a new paragraph 3.1., to read:

- "3.1. "Form of energy" means (i) electrical energy, or (ii) mechanical energy, or (iii) chemical energy (including fuels)."

Paragraph 4., amend to read:

- "4. "Auxiliary devices" means energy consuming, converting, storing or supplying non-peripheral devices or systems which are installed in the vehicle for purposes other than the propulsion of the vehicle and are therefore not considered to be part of the powertrain."

Paragraph 5.1., amend to read:

- "5.1. "Pure ICE vehicle" means a vehicle where all of the propulsion energy converters are internal combustion engines."

Paragraph 5.1.1., amend to read:

- "5.1.1. "Mono-fuel vehicle" means a vehicle that is designed to run primarily on one type of fuel."

Paragraph 5.1.2., amend to read:

- "5.1.2. "Bi-fuel vehicle" means a vehicle with two separate fuel storage systems that is designed to run primarily on only one fuel at a time; however, the simultaneous use of both fuels is permitted in limited amount and duration."

Paragraph 5.1.4., amend to read:

- "5.1.4. "Flex-fuel vehicle" means a vehicle with one fuel storage system that can run on different mixtures of two or more fuels."

Paragraph 5.3.2., amend to read:

- "5.3.2. "Hybrid electric vehicle" means a hybrid vehicle where one of the propulsion energy converters is an electric machine."