



Economic and Social Council

Distr.: General
6 April 2023

Original: English

Economic Commission for Europe

Inland Transport Committee

World Forum for Harmonization of Vehicle Regulations

190th session

Geneva, 20-22 June 2023

Item 4.7.9. of the provisional agenda

1958 Agreement:

Consideration of draft amendments to existing

UN Regulations submitted by GRPE

Proposal for Supplement 12 to the 01 series of amendments to UN Regulation No. 101 (CO₂ emission/fuel consumption)

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-seventh session (ECE/TRANS/WP.29/GRPE/87, para. 19). It is based on ECE/TRANS/WP.29/GRPE/2023/11, ECE/TRANS/WP.29/GRPE/2023/13 and GRPE-87-07-Rev.1 as amended by Annex VII of the 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 2023 sessions.

* In accordance with the programme of work of the Inland Transport Committee for 2023 as outlined in proposed programme budget for 2023 (A/77/6 (Sect.20), para 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 5.1.2., amend to read:

"5.1.2. The vehicle to be tested shall be equipped with the daytime running lamp system that has the highest electrical energy consumption of the daytime running lamp systems, which are fitted by the manufacturer to vehicles in the group represented by the type-approved vehicle. The manufacturer shall supply appropriate technical documentation to the type-approval authorities in this respect.

The daytime running lamps as defined in paragraph 2. of Regulation No. 48 shall be switched ON during the test cycle."

Insert a new paragraph 5.1.2.1. to read:

"5.1.2.1. For tests according to this Regulation performed after [xx-xx-20xx¹], the rear position lamps shall be set to the operating condition which is applied at ambient lighting conditions exceeding 7,000 lux (e.g. by the vehicle's dynamometer operation mode)."

Insert a new paragraph 13.6., to read:

"13.6. Until 1 September 2024, Contracting Parties applying this Regulation may continue to grant extensions of type approvals according to the 01 series of amendments to this Regulation, based on the test procedures for the discharge of electrical energy/power storage device of the vehicle described in paragraph 4.2.2.1. to Annex 8 of this Regulation, without taking into account the provisions of Supplement 12."

Annex 1, insert new paragraph 1.6., to read:

"1.7. Name(s) and address(es) of assembly plant(s):"

Annex 8, paragraph 4.2.2.1., amend to read:

"4.2.2.1. The electrical energy/power storage device of the vehicle is discharged while driving with the switch in pure electric position (on the test track, on a chassis dynamometer, etc.) at a steady speed of 70 per cent \pm 5 per cent of the maximum thirty minutes speed of the vehicle in pure electric mode, which is to be determined according to the test procedure for electric vehicles defined in UN Regulation No. 68.

Stopping the discharge occurs:

- (a) When the vehicle is not able to run at 65 per cent of the maximum thirty minutes speed; or
- (b) When an indication to stop the vehicle is given to the driver by the standard on-board instrumentation; or
- (c) After covering a distance of 100 km.

If the vehicle is not equipped with a pure electric mode, the electrical energy/power storage device discharge shall be achieved by driving the vehicle (on the test track, on a chassis dynamometer, etc.):

- (a) At a steady speed of 50 km/h until the fuel consuming engine of the HEV starts up;
- (b) Or if a vehicle cannot reach a steady speed of 50 km/h without starting up the fuel consuming engine, the speed shall be reduced until the vehicle can run a lower steady speed where the fuel consuming engine just does not start up for a defined time/distance (to be specified between technical service and manufacturer);
- (c) Or with manufacturer's recommendation.

¹ Date to be replaced by the date of entry into force of this proposal when known

The fuel-consuming engine shall be stopped within 10 seconds of it being automatically started."
