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Progress on the development of new UN GTRs and of amendments to established UN GTRs

Proposal for a revised authorization to develop a UN GTR on Global Real Driving Emissions (RDE)

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. 47). It is based on GRPE-87-51, as amended by Annex IX of the report. It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to the Administrative Committee (AC.3) 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.



I. Mandate and Objectives

1. In the framework of the 1998 Agreement the main objective of this proposal is to request a revision of the authorization to develop a UN GTR on Global RDE with the following objective:

Continue development of the UN GTR on Global RDE with a methodology for determining the real driving emissions of light duty vehicles appropriately adapted for broader areas of vehicle operation and additional pollutants.

II. Introduction

2. The draft UN GTR developed by the RDE Phase 1 group was largely informed by established RDE test procedures from both the European Commission and Japan. Many stakeholders participated in the development of the draft GTR and it met the immediate need of many Contracting Parties. However, it was generally recognized that the test procedure should be expanded to include a broader areas of vehicle operation and additional pollutants.

3. It is therefore appropriate to continue to develop the global technical regulation on RDE. The RDE Phase 2 UN GTR will consider extended conditions of driving, considering the varying conditions on driving patterns, traffic and ambient conditions which occur in the different areas in the world where cars are used. Furthermore, the UN GTR on Global RDE structure should be developed in a way that it is possible for countries to implement the UN GTR on Global RDE into their national legislation considering local normal driving, traffic and ambient conditions as well as variations in regulated pollutants and air toxics.

4. In order to develop the proposal a second phase of the IWG on Real Driving Emissions is necessary.

5. In order to accommodate developments in the national emission type approval regulations, e.g. Euro 7 in Europe or a new upcoming proposal on the emissions from light duty vehicles in the USA, the contracting parties suggest to delay the work on the UN GTR until the national rules are adopted.

III. Areas of work

6. The group shall focus its work in the following areas:

(a) Create a consolidated list of goals of the real driving emissions (RDE) procedure- phase 2

Working within the IWG, stakeholders should identify and document an agreed upon list of goals for the Phase 2 project. This should include, but not limited to, expanded vehicle operation representative of real-world driving, a less prescriptive and more flexible test procedure, and consideration of additional pollutants, such as particle mass measurement (PM).

(b) Establish Consensus Goals

The consolidated version will be reviewed with the following objectives:

(i) Streamline the UN GTR text by focusing on the test procedure;

(ii) Identify areas for further technical improvements with particular focus in the evaluation methods;

(iii) Study the differences in conditions on normal driving patterns, traffic and ambient conditions in the different areas in the world where cars are used and review the regional needs;

(iv) Produce a draft UN GTR with the technical procedure for RDE.

(c) Finalizing a draft UN GTR on Global RDE

The draft UN GTR shall be edited by the group and proposed for acceptance at a date which will be decided when the IWG on RDE will recommence its work.

IV. Existing regulations

7. UN Regulation No. 83 contains uniform provisions concerning the approval of vehicles with regard to the emission of pollutants according to engine fuel requirements. However, this Regulation has no provisions for checking the real driving emissions of pollutants.

The IWG on RDE has in the meantime prepared and proposed for approval a new UN Regulation on RDE. The Regulation is planned for approval in WP.29 in its June 2023 session.

V. Revised Timeline

8. The plan below is indicative only and will be regularly reviewed and updated to reflect progress and feasibility of the timeline:

(a) June 2021: Acceptance of the Terms of Reference by GRPE and request for new mandate;

(b) IWG on RDE meetings and work will recommence once the national regulations are set.
