

Definitions and acronyms/abbreviations in Vehicle Regulations

1. Status of Vehicle Propulsion System Definition (VPSD) IWG

The VPSD IWG presented at the January GRPE a first draft proposal for a new Mutual Resolution (M.R.2), containing definitions for regulations regarding the powertrain of vehicles. The main aims are:

- Harmonization of existing definitions.
- Development of a consistent and robust definition system (maybe not possible in all cases).
- Definitions suitable for a constructive and explicit use in vehicle regulations.
- Wording of definitions in a technology neutral way to the extent possible.

The powertrain related definitions are primarily used in exhaust gas emission regulations (GRPE), but should be used consistently also in regulations under the control of other GR's. GRPE will resume consideration on basis of a working document (ECE/TRANS/WP.29/GRPE/2015/13) at the June session. Currently it's planned to transmit the draft Mutual Resolution for consideration and adoption at the November 2015 session of WP.29.

There is a need to further harmonize other powertrain related definitions (e.g. pollutants, aftertreatment systems, plug in, electric range). They can be introduced into M.R.2 as a second step amendment in conjunction with the ongoing work on GTR 15 (WLTP) and other regulations. Currently this work can be done without a further activity of the VPSD IWG (no extension of mandate).

2. RESS

The abbreviation "RESS (Non-original Replacement Exhaust Silencer System/ Non-original Replacement Exhaust System)" is used in UN R 92. The same abbreviation (RESS) is known and used worldwide as "Rechargeable Energy Storage System", and it can be found also in UN R 12 (and some older series of amendments of other UN regulations). In the meantime also the abbreviation REESS is sometimes being used for "Rechargeable Energy Storage System" and can

be found in several UN Regulations (10, 94, 95, 100). However, in all of the mentioned cases it is an electrical RESS, not a mechanical RESS (e.g. flywheel, hydraulic RESS) that's being understood.

Within VPSD discussions we tried to find a solution without using the abbreviation RESS, in order to avoid a conflict with the definition in UN R 92. But finally we came back to the following approach, which provides from VPSD point of view the best solution for all vehicle regulations:

RESS - "Rechargeable Energy Storage System"

REESS - "Rechargeable Electrical Energy Storage System"

RMESS - "Rechargeable Mechanical Energy Storage System"

Request to GRB: In medium term please introduce an alternative abbreviation for "Non-original Replacement Exhaust/Silencer/System" (e.g. NRES) in UN R 92.

Request to GRSP: Please introduce an amendment of the definition of REESS (Rechargeable Electrical Energy Storage System) into the relevant UN Regulation. By keeping REESS clearly distinguished from RMESS will help to better assign the appropriate requirements to different technologies in vehicle regulations.

3. List of acronyms and symbols on UNECE website

(http://www.unece.org/trans/main/wp29/wp29wgs/wp29gen/acronyms_definitions.html)

Proposals after consideration at 117th AC.2 on March 9th 2015:

- a)...The list contains acronyms and abbreviations. Therefore the title of the list should be amended accordingly.
 - b) Abbreviations/acronyms from GTR's should also be included in the list.
 - c) Step by step the symbols used in all UN Regulations and GTR's should be included in the list of symbols.
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