GRPE emission items list

Note by the Chair and secretariat

This GRPE emission items list contains topics to potentially be explored on the medium and longer term which CPs might want to consider for future activities at GRPE. It is an update of Table 2 from GRPE-80-04-Rev.1.

Table 1
Potential future activities related to pollution and energy

Title	Time horizon	Leads	Objectives
Lifetime compliance: In- Service Conformity, in use compliance and beyond	Medium term	GRPE / IWG on PTI	Ensure adequate and long-lasting environmental performance of vehicles: - In-Service Conformity (ISC) / durability provisions - PTI tests - On-Board Measurements and monitoring - Tampering prevention (e.g. NOx emulator, DPF removal)
Non-regulated Emissions	Medium term	GRPE	Include non-regulated pollutant into emissions regulations, if appropriate
Technology- and fuel- neutral test procedure and emission limits	Medium term	GRPE	Harmonize test procedures and emission limits for all fuel types, engine technologies and energy sources
Heavy Duty Hybrids	Medium term	GRPE	Introduction of approval provisions in UNR 49 and possible Amendments to UN GTR No. 4
Powertrain definitions	Medium term	GRPE	Develop a more regular and systematic framework for the update of Mutual Resolution No. 2 Containing Vehicle Propulsion System Definitions
Replacement after- treatment systems	Medium term	GRPE	Amendments to UN Regulation No. 103
GHG emissions / Fuel/energy consumption standard measurement methodology	Long term	GRPE	- Harmonization of various existing methodology for GHG emissions / fuel/energy consumption standard approaches 1 – for heavy duty vehicles 2 – for light duty vehicles 3 – for other vehicle categories - Harmonization of the approaches for real life fuel/energy consumption monitoring

GRPE-87-55

Title	Time horizon	Leads	Objectives
Consumer Information	Long term	GRPE	Consumer information about energy consumption / GHG and pollutants, range. Driver assistance features to reduce emissions, eg. Eco-driving,
Connected, automated and autonomous vehicles and the environment	Long term	GRPE / GRVA	Using vehicle connectivity, automation and self- driving capabilities to minimize environmental impact of vehicles and associated activity.
Geo-Fencing	Short/ Medium	GRPE / EVE	Putting in place automatic location recognition system to force electric mode of OVC-HEV in certain geographical areas, eg. city centers
Simplification emissions regulations	Long term	GRPE	Legislative improvement and increased efficiency for approval, CoP, ISC tests to simplify test protocols to improve the deployment and enforcement for all contracting parties.
Trailer cooling equipment / power assistance	Long Term	GRPE	Emissions of trailers that are cooled or electrically powered or power-assisted

2