

Submitted by the IWG on EPPR

Informal document **GRPE-72-16**
72nd GRPE, 11- 15 January 2016
Agenda item 9(a)

Report from IWG on
Environmental and Propulsion
Performance Requirements for
Light vehicles (EPPR)
72nd GRPE 13-15th January 2016

Geneva

Chair: Adolfo PERUJO

Secretary: Thomas VERCAMMEN

Outline

- Background
- State of play
- New GTR on Evaporative emissions and crankcase gases
- State of play for New GTR on OBD
- State of play for amendments to GTR 2
- Roadmap
- Next meetings
- Secretariat

Background- ToR and mandate

- Priority to work under 1998 Agreement but will also work under 1958 Agreement
- Amend GTR No2 and develop new GTRs with respect to Environmental and Propulsion unit Performance Requirements
- Create synergies with 58th Agreement and where possible develop common requirements in form of UN Reg(s)
- Exchange information on current and future regulatory requirements for 'light vehicles'
- Adopted at WP29 Nov 2013
- Extended at WP29 Jun 2015 (2016 to 2020)

Timing within EPPR mandate

- November 2012: 158th session of WP.29 – agreement on establishment of informal working group by adoption of the mandate regarding environmental and propulsion performance requirements for L-category vehicles.
- January 2013: 1st meeting of the EPPR informal working group. Review and adoption of the Rules of Procedure and Terms of Reference.
- June 2013: GRPE (66th session) meeting of the EPPR informal working group. Presentation of draft final roadmap and related programme management items to GRPE submitted for adoption.
- November 2013: 158th session of WP.29, adoption of GRPE decision regarding the final roadmap and related programme management items.
- 2013-2016: meetings of the working group, regularly reporting to GRPE and the Administrative Committees (AC 1 and AC 3)
- June 2015: Extension of the mandate to 2020
- January 2016: GTR on evaporative and crankcase emissions
- 2016: possible adoption of Global Technical Regulation

Past meetings EPPR June 2015 – January 2016

- 12th meeting in Brussels, 8th-10th September 2015
- 13th meeting in Brussels, 26-27 Nov 2015 (TELCO)
- 14th meeting in Geneva, 12 January 2015

- Monthly phone/web meetings

Topics to be covered by EPPR

- Environmental performance:
 - **Type I: Tailpipe emissions test after cold start (revision);** PRIORITY
 - Type II: Tailpipe emissions test at (increased) idle / free acceleration;
 - **Type III: Emission test of crankcase gases;**
 - **Type IV: Evaporative emissions test;** PRIORITY
 - Type V: Durability testing of pollution control devices;
 - Type VII: Measurement of CO2 emissions, fuel consumption, electric energy consumption and electric range determination;
 - **Type VIII: On-board diagnostics environmental verification tests.** PRIORITY
- Propulsion unit performance:
 - Unified rules and test procedures to measure power and torque for propulsion technologies fitted on L-category vehicles
 - unified measurement of maximum design vehicle speed and/or power for restricted L-category vehicles should be developed and agreed upon.

Structure of coming proposals

- **New GTR** (informal document June 2015 & working document January 2016)
 - Evaporative emissions
 - Crankcase emissions
- **New GTR** (working document scheduled for June 2016)
 - OBD
- **GTR 2 amended including** (tentative informal document for January 2017)
 - Test type I (work have started)
 - Test type II (Idling)
 - Test type VII on Energy efficiency (CO₂, FC& Range)

→ GTRs to be transposed into UN Regulations

Evaporative and crankcase emissions

- **Formal GTR proposal: ECE/TRANS/WP.29/GRPE/2016/2 -**
(Informal Working Group on Environmental and Propulsion Performance Requirements (EPPR)) Proposal for a new global technical regulation on the measurement procedure for two- or three-wheeled motor vehicles equipped with a combustion engine with regard to the crankcase and evaporative emissions
- Combined with the
 - final draft Technical Report: GRPE-72-06
 - Several open points resolved and Informal Document GRPE-72-13

OBD-I

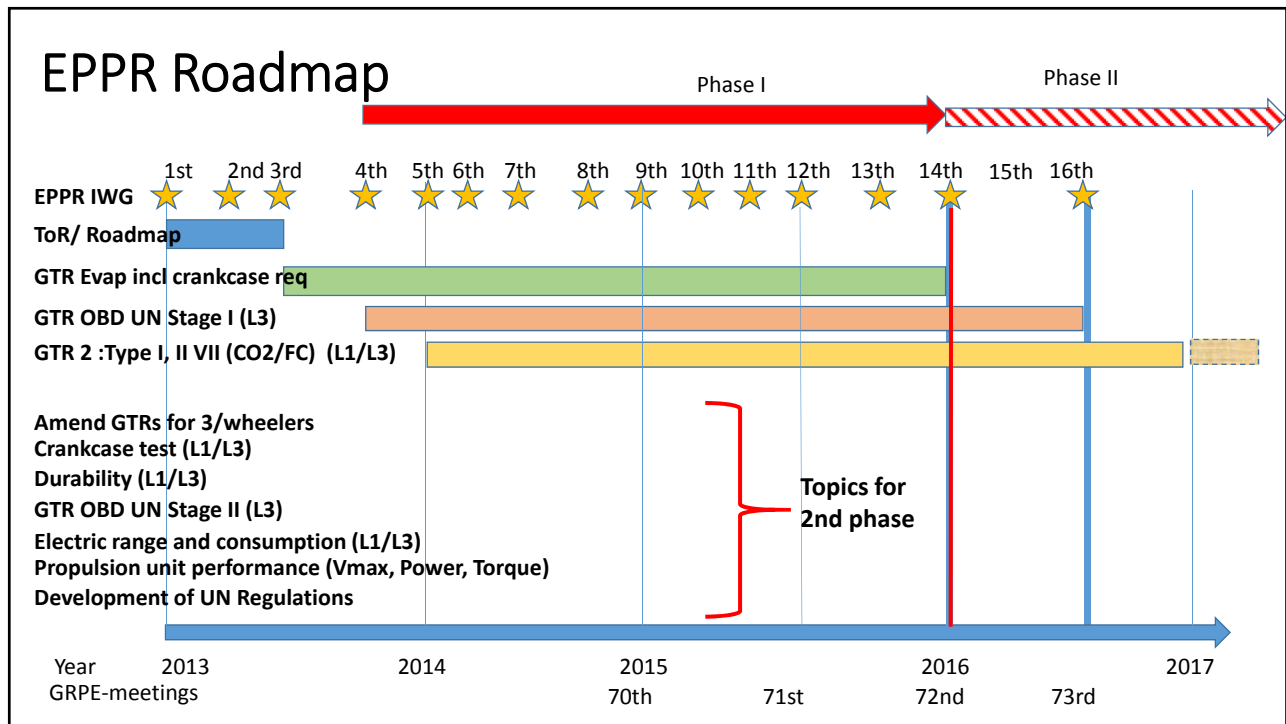
- Revised proposal for draft GTR by European Commission (Dec 2015)
 - Amendment proposals by Japan. (Jan 2016)
 - Review and proposals by contracting parties by Feb 5, 2016
- Target to propose GTR as working document to next GRPE

Amendments to GTR 2

- Proposal from EC for GTR 2 revision 1 (clean document).
- IMMA started comparing clean document with current GTR2, so that the differences are clear

Tentative proposal for Phase II (from 2016 and beyond)

- GTR on Evap and Crankcase
 - Develop Crankcase test (L1/L3)
 - Amend GTR on Evap and Crankcase for 3-wheelers
- GTR on OBD
 - Amend GTR on OBD UN Stage I for 3-wheelers
 - Amend GTR on OBD UN Stage II for (L3)
- GTR 2
 - Amend GTR 2 for 3-wheelers (conventional propulsion)
 - Amend GTR 2 for electric range and consumption
- New GTR on durability (L1/L3)
- New GTR on PuPPR(Vmax,Power, Torque) (L1/L3)
- Transposition of GTRs into UN regs



Future meetings EPPR

- 15th meeting in Ispra, 03-04 March 2016
- 16th meeting in Geneva, June 2016, **full day requested**, date tbc
- 17th meeting October, 2016 (tbc)

- Monthly audio-web conferences in 2016, see *EPPR-14-19-Rev2e*

Secretariat:

- Daniela Leveratto

d.leveratto@immamotorcycles.org

- Hardik Makhija

hardik@siam.in

Web page for the EPPR IWG:

<https://www2.unece.org/wiki/pages/viewpage.action?pagelId=5800520>