Informal Group on Gaseous Fuelled Vehicles (GFV)

Report 64th GRPE June 2012
Meetings GFV Group

- 18th GFV meeting
  - 29 February 2012 Brussels

- 19th GFV meeting
  - 8 March 2012 Zoetermeer (The Netherlands)

- 20th GFV meeting
  - 14-15 May 2012 Bologna (Italy)

- 21th GFV meeting
  - 5 June 2012 Geneva
GFV items

- Heavy Duty Dual-Fuel Task Force (HDDF-TF)
  - R.49 rev 6 (Euro VI)
  - R.49 rev 5 (Euro V)
  - R.85 (net power)
  - R.115/? (retrofit LPG/NG)
GFV items

Heavy Duty Dual-Fuel (HDDF)

- Amendments to rev.6 of Regulation 49 (EURO VI)
- The drafting work has been finalized

A complete proposal has been submitted to this 64th GRPE
GFV items

HDDF Amendments to rev.5 of Regulation 49 (EURO V)

- No progress since January 2012
- GFV proposal: 1 year delay
- Informal document to be submitted to January 2013 GRPE
- Formal document to be submitted to June 2013 GRPE
- Final amendments to be submitted to November 2013 WP29
GFV items
HDDF retrofitted engines and vehicles

- The GFV kindly request the GRPE to validate the following working plan
  - July 2012 – January 2013
    - Draft of the rules permitting type-approval of EURO V dual-fuel engines and vehicles (basis for setting retrofit rules)
    - Explore the legal framework for retrofit. 3 options:
      - Restructuration and extension of R115 to address HDVs
      - Extension of the REC Regulation
      - New HD-retrofit Regulation
  - January 2013
    - Decision by GRPE of the legal framework (the 3 options)
  - January 2013 – June 2013
    - Draft of the principles to be considered for setting retrofit rules (taking advantage of the experience of the REC group)
  - June 2013
    - Validation by GRPE of the principles
GFV items

- Bi-fuel gas vehicles with mix operations (DI engines).
  - Safeguard petrol injectors
    - Minimum use of petrol during gas mode
  - Definitions bi-fuel vehicles changed (higher than 80% energy ratio)
  - Energy measurement developed by weighing the gas during the emission test
    - New alternative measuring procedure proposal CLEPA will be evaluated in GFV meeting next time.

- documents
  - 1.R83 ECE/TRANS/WP.29/GRPE/2012/6
  - 2.R115(ECE/TRANS/WP.29/GRPE/2012/7)
  - 3.Mass correction factor G25 (informal document GRPE-64-06 revised by GRPE-64-21)
GFV items

Definitions for Gaseous Fuelled vehicles

The GFV has collected the existing and proposed definitions dealing with gaseous fuelled vehicles in the different UNECE Regulations to facilitate WLTP.
GFV items

○ Task Force on Liquefied Natural Gas (LNG)
  - This LNG TF will report to GRSG on their progress and will finally propose amendments to R.110. The group makes good progress and TF had a meeting during this GRPE on Wednesday.

○ Special GFV item
  - Under discussion the request of the European Commission to GFV for input for a European proposal for amendments to M1 and N1 vehicles emission regulation (Euro 5/6) concerning THC / CH4 (methane).
Next steps GFV

Next meetings
- GFV meeting 12th July 12 (Brussels)
- GFV meeting in Geneva in January 2013
  - GFV request GRPE for a ½ day meeting during the 65th GRPE
- HDDF TF meetings scheduled by the Task Force
- LNG TF meeting scheduled by the Task Force